CURRICULUM VITAE

Candidate's Name: DR. VOLCHENKOV, DIMITRI   **Date:** Monday, February 19, 2024

I. GENERAL INFORMATION

CONTACT INFORMATION

E-mail: dimitri.volchenkov@ttu.edu   Web: http://www.math.ttu.edu/~dvolchen

Texas Tech University, Department of Mathematics and Statistics, Room 244

Phone: (806) 834-1920, Mobile: (806) 543-7872

Home Address: 101 N Vale Ave. Lubbock, TX 79416

EDUCATION & QUALIFICATIONS

Qualified as Privatdozent, Theoretical & Mathematical Physics Bielefeld University, Germany	Oct 2010
Habilitation (*Doctor habilitatus*), Theoretical & Mathematical Physics Bielefeld University, Germany	Oct 2010
Qualified as a University Professor, Theoretical & Mathematical Physics Ministère De L'éducation Nationale, Paris, France N°08129188186	May 2008
Qualified as a University Professor, Physics of Diluted & Optical Media Ministère De L'éducation Nationale, Paris, France (N°08130188186)	May 2008
Habilitation (*Doctor habilitatus*), Theoretical & Mathematical Physics l'Universite Aix-Marseille, C.N.R.S. UMR-6207, Marseille, France	Feb 2007
Ph.D., in "Physical and Mathematical Sciences", V.A. Fock Research Institute of Physics, Saint-Petersburg State University, Russia	May 1996
Diploma Cum Laude, Theoretical and Mathematical Physics, Saint-Petersburg State University, Russia	May 1993
Radiolocation Engineer, Saint-Petersburg State University, Russia.	May 1992

CURRENT ACADEMIC POSITION

Professor   Sep 2022 –

Department of Mathematics and Statistics

Texas Tech University, Lubbock

PRIOR ACADEMIC POSITIONS

Associate Professor   Sep 2017 – Aug 2022

Department of Mathematics and Statistics

Texas Tech University, Lubbock

Sep 2016 – Sep 2017

Professor
1000 Talent Plan of China Program
Sichuan University of Science and Engineering, Zigong, China

Research Professor   2009 - 2016
Center of Excellence: Cognitive Interaction Technology
Bielefeld University, Germany

Volkswagen Research Fellow   2007-2008
Bielefeld-Bonn Stochastic Research Center
Bielefeld University, Germany

NATO/OTAN Research Fellow   2006-2007
Centre de Physique Théorique, CNRS UMR-6207
Marseille, France

Alexander von Humboldt Research Fellow   2006
Center of Interdisciplinary Research
Bielefeld University, Germany

Research Fellow   2003-2006
V.A. Fock Research Institute of Physics
Saint-Petersburg State University, Russia

NATO/OTAN Research Fellow   2002-2003
Centre de Physique Théorique, CNRS UMR-6207
Marseille, France

Alexander von Humboldt Research Fellow   1999-2002
Center of Interdisciplinary Research,
Bielefeld University, Germany

NATO/OTAN Research Fellow   1998-1999
Centre de Physique Théorique, CNRS UMR-6207
Marseille, France

Visiting Assistant Professor   1997-1998
Texas A&M University
College Station, TX ,USA

Assistant Professor   1996
V.A. Fock Research Institute of Physics
Saint-Petersburg State University, Russia

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Mathematical Society   Member since 2020

Alexander von Humboldt Alumni Society (Germany)   Member since 2000

RESEARCH AFFILIATION

Department of Mathematics and Statistics, Texas Tech University

II. TEACHING

TEACHING AWARDS

TTU SIAM professor of the year 2021/2022   2022

Department of Mathematics and Statistics, TTU

Outstanding advisor/mentor award   2019

Department of Mathematics and Statistics, TTU

PEDAGOGICAL ACCOMPLISHMENTS

Honors college courses taught (TTU):   Fall 2018
Calculus III w. Applications - MATH 2450 H01

New courses developed (TTU):

MATH 5365 Computer Literacy and Programming II: Mathematical	Summer I 2023
Foundations of Data Science, Machine Learning and Artificial intelligence	Summer II 2023
	Fall2020,
	Fall2019,
	Spring 2018
MATH 4330 Mathematic Computing	Fall 2018
MATH 5399 Advanced Problems: Discrete Mathematics w. Applications	Summer 2019

New courses developed (Sichuan Univ of Science and Engineering, China):

Mathematics of Data Science	Summer 2017
Nonlinear Dynamical Systems w. Applications	Fall 2016

New courses developed (Bielefeld University, Germany):

ekVV 289994 Modern Mathematical Physics w. Applications	2013-2014
Real World Models: From Extreme Matter to Financial Markets	Summer 2013
International Graduate College	
Wicked Problems, Complexity and Wisdom	Summer 2013
International Graduate College	
ekVV 289650 Random Walks over Networks and Databases	Spring 2013
ekVV 289973 Hyperbolic geometry of Complex Networks	Fall 2012
ekVV 289990 Stochastic Analysis of Complex Networks	Spring 2011
Stochastic and Real-World Models	Summer 2006
International Graduate College	

New courses developed (University of Pedagogical Art, S Petersburg, Russia):

Advanced Problems in College Physics	Fall 2004
	Fall 2003

PROMOTING EDUCATION WORLDWIDE

Public University Library Bought and Organized

English Language Scientific Library	June 2016
Sichuan University of Science and Engineering, China	
Personal gift $50,000 from the grant 1000 Talent Plan Program of China	

SCHOLARSHIP OF TEACHING AND LEARNING

Classroom Communication and Chalk Talk Workshop attended	March 2019
Communication Training Center, TTU	

RESEARCH MENTORING

Chair of Doctoral Committees (Completed)

Rathnayake, Kusal	Apr 2023

Department of Mathematics and Statistics, TTU
Dissertation Title: Machine Learning Analysis of Human Decission making
Committee members: Dimitri Volchenkov (chair), Ori Swed, Leif Ellingson

Hettiarachchige Sithma Sineka Pinto Jayawardena   Apr 2023
Department of Mathematics and Statistics, TTU
Dissertation Title: Statistical Learning of Political Conflict Dynamics
Committee members: Dimitri Volchenkov (chair), Ori Swed, Leif Ellingson

Zhuanzhuan Ma   June 2022
Department of Mathematics and Statistics, TTU
Dissertation Title: "Sparse Bayesian Variable Selection in High Dimensional Regression
and Applications of the Log-Logistic Distribution in Industrial Engineering" Committee members:
Dimitri Volchenkov (chair), Min Wang (co-chair), Fangyuan Zhang, George Zhuo Tan
Mark Sheridan (Dean Representative)

Dassanayaka Mudiyanselage, Sachith Eranga   May 2022
Department of Mathematics and Statistics, TTU
Dissertation Title: Artificial Intelligence Algorithms for Activity Pattern Detection in the
Information Operation Networks
Committee members: Dimitri Volchenkov (chair), Ori Swed, Leif Ellingson, Akbar Siami-Namin
(Dean's Representative)

Veniamin Smirnov   Sep 2021
Department of Mathematics and Statistics, TTU
Dissertation Title: Predictability and Uncertainty in Complex Systems
Committee members: Dimitri Volchenkov (chair), Alexander Solynin, Dmitry Pavlov, Akbar
Siami-Namin (Dean Representative)

Isuru Dilan Dassanayake   June 2021
Department of Mathematics and Statistics, TTU
Dissertation Title: Exploring Social and Economic Predictors for US Government Elections
Committee members: Dimitri Volchenkov (chair), Ori Swed, Kazuo Yamazaki, Chunmei Wang,
Leif Ellingson, Sanjaya Senadheera

Thilini Vansana Mahanama   March 2021
Department of Mathematics and Statistics, TTU
Dissertation Title: Risk Assessment and Financial Management of Natural Disasters and Crime
Committee members: Dimitri Volchenkov (chair), Svetlozar Rachev, Brent Lindquist

Sven Banisch   Sep 2011

Department of Physics, Bielefeld University, Germany
Dissertation Title: Markov Chain Aggregation for Agent–Based Models
Committee members: Dimitri Volchenkov (chair), Philippe Blanchard, Gernot Akemann,

Chair of Doctoral Committees (In-Progress)

Fahad Mostafa   Apr 2024
Department of Mathematics and Statistics, TTU
Dissertation Title: "Statistical Machine Learning for Biomedical Science"
Committee members: Dr. Dimitri Volchenkov(Chair), Dr. Victoria Howle(Co-chair), Dr. Linda J.S.
Allen(Co-chair), Dr. Alex Trindade(Member)

Salkhi Khasraghi, Gisou   Apr 2024
Department of Landscape Architecture LARC, TTU
LPMD 8000 001 Doctor's Dissertation 75634
Dissertation Title:
Committee members: Dimitri Volchenkov (chair), Ali Nejat, Rodolfo Gonzalez

HettiaracIlandari Dewage, Indika Gihan Gunawardana   Apr 2024
Department of Mathematics and Statistics, TTU
Dissertation Title:
Committee members: Dimitri Volchenkov (chair), Fanguyang Zhang, Leif Ellingson

Rajapaksha Pathiranage Dona, Charu Sameera Devindi   Apr 2024
Department of Mathematics and Statistics, TTU
Dissertation Title:
Committee members: Dimitri Volchenkov (chair), Ori Swed, Leif Ellingson

Member of Doctoral Committees

Zulfiqar Ali Khan, M.S   October 2023
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Novel Vulnerability Detection Techniques for Ethereum-based Smart
Contracts"/ Committee members: Dr. Akbar Siami-Namin (Chair) Dr. Yu Zhuang, Dr. Susan A.
Mengel, Dr. Tommy Dang, Dr. Dimitri Volchenkov (Dean's Representative), Dr. Mark A. Sheridan
(Dean of the Graduate School)

Amir Kaffashnia, MS, Ph.D. Candidate in Physics,   August 2023
The Memorial University of Newfoundland Thesis "Brownian Motion in One-Dimensional Models:
Scaling, Universality, and Dispersionless Transport"

Committee Members: Dr Mykhaylo Evstigneev (Chair), Dr Anand Yethiraj, Dr. Dimitri Volchenkov, Dr Kennedy, Jennifer, Dr Ivan Saika-Voivod, Dr Stefan Wallin, Dr James LeBlanc, Dr Daneshtalab, Noriko, Dr Ruby Barron (Dean Representative)

Yawei Cheng, M.S., Ph.D. Candidate in Mathematics,   June 2023
Department of Mathematics & Statistics, Texas Tech University
Dissertation Title: "Latent Profile and Transactional Analyses for Cohort Panel Data"
Committee Members: Dr. Tom Lu (Chair), Dr. Jinbo He, Dr. Dimitri Volchenkov, Dr. Mark A. Sheridan (Dean of the Graduate School)

Huyen Nguyen, Ph.D. Candidate in Computer Science,   June 2023
Department of Electrical and Computer Engineering, Texas Tech University
Dissertation Title: "Interactive Visualization and Event Detection in Time-series Data"
Committee Members: Dr. Tommy Dang (Chair), Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Dimitri Volchenkov

Andrea Arriet, M.S, B.S, Ph.D. Candidate in Computer Science,   June 2023
Department of Electrical and Computer Engineering, Texas Tech University
Dissertation Title: "Water Management Policies for the Energy Sector for North America"
Committee Members: Dr. Timothy Matis (Chair), Dr. Felipe Feijoo, Dr. Dongping Du, Dr. Hamidreza Validi, Dr. Dimitri Volchenkov

Luis Felipe Gutiérrez, M.S, B.S, Ph.D. Candidate in Computer Science   March 2023
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Enabling Context-Aware Natural Language Processing: From Dense Vector Representations to Contextual Features"
Committee Members: Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morshed, Dr. Tommy Dang, Dr. Dimitri Volchenkov

Faranak Abri, M.S, B.S   June 2022
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Content Analysis and Modeling Interactions in Social Engineering Attacks"
Committee Members: Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morshed, Dr. Sumaiya Shomaji, Dr. Dimitri Volchenkov, Dr. Mark A. Sheridan (Dean of the Graduate School)

Datta, Prerit   June 2022
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Predicting Consequences through Cyberattack Descriptions"
Committee Members: Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morshed, Dr. Sumaiya Shomaji, Dr. Dimitri Volchenkov, Dr. Mark A. Sheridan (Dean of the Graduate School)

Prasantha Bharathi D   September 2021
Dissertation Title: "A Study On Fuzzy Hybrid Delay And Fractional Delay Differential Equations"
Bharathiar University,
Department Of Mathematics, Sri Ramakrishna Mission Vidyalaya, College Of Arts And Science
Coimbatore - 641 046, Tamilnadu, India
Committee members: Dr. T. Jayakumar, Dr. K. Sathiyanathan, Dimitri Volchenkov

Shuvalaxmi Dass   June 2021
Department of Electrical and Computer Engineering, TTU
Dissertation Title: Evolutionary Reinforcement Learning based Moving Target Defense
Framework to Generate Secure Configurations
Committee Members: Akbar Siami-Namin (chair), Dimitri Volchenkov, Victor Sheng, Susan
Mengel.

Moitrayee Chatterjee   June 2020
Department of Electrical and Computer Engineering, TTU
Dissertation Title: A Framework For Evidence Theory Based Reinforcement Learning To
Enhance Decision Making
Committee Members: Akbar Siami-Namin (chair), Dimitri Volchenkov, Yong Chen, Tommy Dang,
Mark Sheridan

Jianjun Zheng   Aug 2020
Department of Electrical and Computer Engineering, TTU
Dissertation Title: Optimal Policy for Dynamically Changing System Configurations in Moving
Target Defense
Committee Members: Akbar Siami-Namin (chair), Dimitri Volchenkov, Yong Chen, Yuanlin
Zhang, Mark Sheridan

Ahmed Belhad   Sep 2020
Department of Mathematics and Statistics, TTU
Dissertation Title: New Estimators for the Co-risk Measures, CoVaRs
Committee Members: Alex Trindade (chair), Leif Ellingson, Dimitri Volchenkov, Abdul Hamood

Saeed Moradi   Nov 2019
Department of Civil, Environmental and Construction Engineering, TTU
Dissertation Title: RecovUS: An Agent-Based Model of Post-Disaster Recovery
Committee Members: Ali Njat (chair), Dimitri Volchenkov, N. Cao, B. Ghosh, D. Miles, O. Swed

Mehdi Jamali   March 2019
Department of Civil, Environmental and Construction Engineering, TTU
Dissertation Title: Human-Centering Approach Toward Post-Disaster Recovery Priorities
Committee Members: Ali Njat (chair), Dimitri Volchenkov, D. Miles, O. Swed

William M. Land   Nov 2013
Department of Neurocognition and Action, Bielefeld University, Germany
Dissertation Title: From action representation to action execution. The links between cognitive and biomechanical levels of motor control
Committee Members: Thomas Schack (chair), Dimitri Volchenkov, Bettina Blaezing, Helge Ritter

Lyudmilla Zhilyakova   Dec 2013
Trapeznikov's Institute of Control Sciences,
The Russian Academy of Sciences, Moscow, Russia
Dissertation Title: Resourse Networks and the Analysis of their Dynamics
Committee Members: Lev Rapoport (chair), Michail Karavai), Dimitri Volchenkov, Yuri Legovich

David Spee   Nov 2011
Department of Physics, Bielefeld University, Germany
Dissertation Title: Spontaneous Symmetry Breaking Transport: From anomalous response to chiral separation
Committee Members: Dietrich Bödeker (chair), Dimitri Volchenkov, Philippe Blanchard, Hans-Jürgen Loesch, Jürgen Schnack

Julio Rodriguez   Jan 2011
Department of Physics, Bielefeld University, Germany
Dissertation Title: Noise and Delays in Adaptive Interacting Oscillatory Systems
Committee Members: Philippe Blanchard (chair), Dimitri Volchenkov, Jürgen Schnack, Max Hongler

Elena Floriani   Jan 2008
Aix-Marseille University,
Centre de Physique Théorique, CNRS UMR-6207, Marseille, France
Dissertation Title: Etude des phénomènes d'intermittence, par des modèles déterministes et Stochastiques
Committee Members: Ricardo Lima (chair), Sandro Vaienti, Valentin Afraimovich, Dimitri Volchenkov

Michael Kompaniéts   May 2005
V.A. Fock Research Institute of Physics
Saint-Petersburg State University, Russia
Dissertation Title: Fully Developed Turbulence in bi-dimensional fluids
Committee Members: Alexander Vasiliev (chair), Loran Adzhemyan, Mikhail Nalimov, Nikolai Antonov, Dimitri Volchenkov

Chair of Master Committees

Akash Deep   Nov 2023
Graduate School, TTU
Interdisciplinary Studies, M.S., Portfolio Assessment
Mathematics, Physics and Interdisciplinary Studies Program
Portfolio Title: "Interdisciplinary Approaches in Mathematical Finance and Quantum Physics"
Committee Members: Dimitri Volchenkov (chair), Lemon, Mike, Beth Thacker

Md Saiful Islam Saif   Nov 2022
Department of Mathematics and Statistics, TTU
Thesis Title: "Imbalanced Machine Learning to Predict Heart Disease"
Committee Members: Dimitri Volchenkov (chair), Fangyuan Zhang, Leif Ellingson

Alam, Naima   Nov 2022
Department of Mathematics and Statistics, TTU
Thesis Title: "Statistics of antenatal visits during pregnancy"
Committee Members: Dimitri Volchenkov (chair), Fangyuan Zhang, Leif Ellingson

Lawal, Ibrahim O.   Apr 2021
Department of Mathematics and Statistics, TTU
Thesis Title: Credit Risk Prediction Using German Credit Dataset
Committee Members: Dimitri Volchenkov (chair), Leif Ellingson

Ali Samadian Zahraei   Apr 2021
Department of Mathematics and Statistics, TTU
Thesis Title: Global Suicide Trends & Analysis by Age, Gender, and Country
Committee Members: Dimitri Volchenkov (chair), Fangyuan Zhang

Ilandari Dewage, Indika Gihan Gunawardana   Apr 2021
Department of Mathematics and Statistics, TTU
Thesis Title: Heart Attack Analysis & Prediction
Committee Members: Dimitri Volchenkov (chair), Fangyuan Zhang

Brooke C Sanders   Oct 2019
Department of Mathematics and Statistics, TTU
Thesis Title: Medical Insurance System in the US
Committee Members: Dimitri Volchenkov (chair), Leif Ellingson

Desi Corbin   Apr 2019
Department of Mathematics and Statistics, TTU
Thesis Title: The Role of Prescription Drug Monitoring Programs in Addressing the
U.S. Opioid Crisis
Committee Members: Dimitri Volchenkov (chair), Leif Ellingson

Roham Sabzevari   Oct 2018
Department of Mathematics and Statistics, TTU
Thesis Title: Constrained Principal Component Analysis
Committee Members: Dimitri Volchenkov (chair), Leif Ellingson

Ahmed Sabit   Apr 2018
Department of Mathematics and Statistics, TTU
Thesis Title: Voting behavior of the swing counties in the U.S presidential election
Committee Members: Dimitri Volchenkov (chair), Leif Ellingson

Holger Baumanns,   Jan 2014
Department of Physics, Bielefeld University, Germany
Thesis Title: Die Interpretationen der Wellenfunktion in der Quantenmechanik
Committee Members: Dimitri Volchenkov (chair), Philippe Blanchard

Jonathan Helbach   Jan 2012
Department of Physics, Bielefeld University, Germany
Thesis Title: Analyse von räumlichen Strukturen und deren Auswirkungen auf
menschliches Explorationsverhalten
Committee Members: Dimitri Volchenkov (chair), Marko Tcherepanow, Sina Kuehnel

Mehdi Khelif   June 2012
Aix-Marseille University, Centre de Physique Théorique, CNRS UMR-6207, Marseille, France
Thesis Title: Les graphes aléatoires invariants d'échelle : modèles réalistes de réseaux reels
Committee Members: Dimitri Volchenkov (chair), Cristel Chandre

Jean René Dawin   Jan 2011
Department of Physics, Bielefeld University, Germany
Thesis Title: Untersuchung Musikalischer Wuerfelspiele nach ihren
Eigenschaften als Markovketten
Committee Members: Dimitri Volchenkov (chair), Philippe Blanchard

Joern Hendrik Steinhaus   Jan 2010
Department of Physics, Bielefeld University, Germany
Thesis Title: Probabilistische Bootstrap Perkolation Modell (1,3,1/2) auf T_n^2
Committee Members: Dimitri Volchenkov (chair), Philippe Blanchard, Jürgen Schnack

Sandra Sequeira Rodriguez   June 2004
Department of Physics, Bielefeld University, Germany
Thesis Title: Networks of Coupled Chaotic Maps
Committee Members: Dimitri Volchenkov (chair), Philippe Blanchard, Bruno Cessac

Recent Student Mentoring Activities (not listed above)

Member of the Mentor Network Participants Group   Spring 2022 - Present
Outreach and Engagement Mentorship Network
Texas Tech University

Roy, Sudharonjon R11812265   Spring 2024
Department of Mathematics and Statistics, TTU
Master Report

Ilandari Dewage, Indika R11656557   Spring 2024
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Mostafa, G M Fahad Bin R11600164   Spring 2024
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Rajapaksha Pathiranage Dona, Charu Sameera Devindi   Spring 2024
R11651237
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Salkhi Khasraghi, Gisou   Spring 2024
Land-Use Planning, Management, and Design Program, TTU
Doctor's Dissertation

Wickramasinghe Disanayakage, Gihani Vidumini Wickramasinghe   Spring 2024
Department of Mathematics and Statistics, TTU
Individual Study Project: "Machine Learning with Phyton"

Joseph Sebastian, Sachini Lakeesha Dinali   Spring 2024
Department of Mathematics and Statistics, TTU
Individual Study Project: "Machine Learning with Phyton"

Karunathilaka, Elagipitiye Liyannalage Nuwanthika   Spring 2024
Department of Mathematics and Statistics, TTU
Individual Study Project: "Machine Learning with Phyton"

Mostafa, G M Fahad Bin R11600164   Spring 2024

Department of Mathematics and Statistics, TTU
Individual Research Project, „Machine Learning in Cancer Research"

Ilandari Dewage, Indika R11656557   Fall 2023
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Mostafa, G M Fahad Bin R11600164   Fall 2023
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Rajapaksha Pathiranage Dona, Charu Sameera Devindi   Fall 2023
R11651237
Department of Mathematics and Statistics, TTU
Doctor's Dissertation

Salkhi Khasraghi, Gisou   Fall 2023
Land-Use Planning, Management, and Design Program, TTU
Doctor's Dissertation

Solodukhina, Anna   Summer 2023
Department of Mathematics and Statistics, TTU
MATH 4000 Individual Study Project

Munasinghe Arachchige, Kalana Kushan   Summer 2023
Department of Mathematics and Statistics, TTU
MATH 7000 Individual Research Project

Ilandari Dewage, Indika Gihan Gunawardana   Spring 2023
Department of Mathematics and Statistics, TTU
STAT 7000 Individual Research Project

Beeram, Sai Pavan   Spring 2023
Department of Mathematics and Statistics, TTU
STAT 7000 Individual Research Project

Rafi, Syed Ehsan Ar   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Munasinghe Arachchige, Kalana Kushan   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Deep, Akash   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Beeram, Sai Pavan   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Weerasekara, Thilini Piyumika   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Priyankara, Thambawita Maddumage Sajith   Spring 2023
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project

Chen, Austin R11774148   Fall 2022
Honor Compass Program, Lubbock High School
Department of Mathematics and Statistics, TTU
MATH 4000 Selected Topics

Rajapaksha Pathiranage Dona, Charu Sameera Devindi   Fall 2022
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Drug Wars in Mexico. Driving Factors of Violence

Ilandari Dewage, Indika   Fall 2022
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project:

Fayyazishishavan, Ehsan
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Pariyar Damay, Dhruba
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Weerasekara, Thilini Piyumika Weerasekara
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Priyankara, Sajith
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Munasinghe Arachchige, Kushan
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Tuason, Tyler Jordan Magante
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 4000 Individual Study Project:

Mahanama, Thisari Kanchana
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Saif, Md Saiful Islam
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 5099 Individual Study Project:

Rathnayake, Kusal Chirantha
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 7000 Research Project:

Pinto Jayawardena, Sithma Sineka
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 7000 Research Project:

Rajapaksha Pathiranage Dona, Charu Sameera Devindi
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 7000 Research Project:

Ilandari Dewage, Indika
Department of Mathematics and Statistics, TTU   Summer 2022
MATH 7000 Research Project:

Rajapaksha Pathiranage Dona, Charu Sameera Devindi

Department of Mathematics and Statistics, TTU   Spring 2022
MATH 7000 Research Project: Drug Related Violence in Mexico

Ilandari Dewage, Indika
Department of Mathematics and Statistics, TTU   Spring 2022
MATH 5099 Individual Study Project: Customer Preferences Data from Texan Wineries

Rathnayake, Kusal Chirantha
Department of Mathematics and Statistics, TTU   Spring 2022
MATH 7000 Research Project: Human Decision Making

Pinto Jayawardena, Sithma Sineka
Department of Mathematics and Statistics, TTU   Spring 2022
MATH 7000 Research Project: Politically Motivated Violence as a Communication Process

Dassanayaka Mudiyanselage, Sachith
Department of Mathematics and Statistics, TTU   Spring 2022
MATH 7000 Research Project: Automated Detection of Russian Network Operations

Rathnayake, Kusal C.
Department of Mathematics and Statistics, TTU   Fall 2021
MATH 5099 Individual Study Project: Epidemic Modelling

Ilandari Dewage, Indika Gihan Gunawardana
Department of Mathematics and Statistics, TTU   Fall 2021
MATH 5099 Individual Study Project: Python Programming

Dassanayaka Mudiyanselage, Sachith Eranga
Department of Mathematics and Statistics, TTU   Fall 2021
MATH 5099 Individual Study Project: Modeling Climate Change

Charu Sameera Devindi Rajapaksha Pathiranage Dona   Fall 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Financial Mathematics of Commission-free trading
platforms

Rathnayake, Kusal C.   Summer 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Mathematical Modeling of Genetic Drift

Jayawardena, Sithma   Summer 2021

Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Math. and Computational Sociology of Armed Conflict,
Violence, and Elections

Das, Hrishikesh   Summer 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Math. and Computational Sociology of Armed Conflict,
Violence, and Elections

Dassanayaka Mudiyanselage, Sachith Eranga   Summer 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Disinformation Campaigns on Twitter

Ilandari Dewage, Indika Gihan Gunawardana   Summer 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Heart Attack Analysis & Prediction Dataset

Rajapaksha Pathiranage Dona, Charu Sameera Devindi   Summer 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Machine learning in Finance

Kalanchige, Himali Sakunthala S.   Summer 2021
Department of Mathematics and Statistics, TTU
Internship: Topics in Time Scale Analysis

Smirnov, Veniamin   July 2021
Department of Mathematics and Statistics, TTU
Internship: Predictable and Unpredictable Information in Symbolic Dynamics Systems

Lawal, Ibrahim O.   Spring 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Project in Python Programming

Pinto Jayawardena, Hettiarachchige Sithma   Spring 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Modeling Climate Change

Das, Hrishikesh   Spring 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Machine Learning and Deep Learning techniques

Kalanchige, Himali Sakunthala   Spring 2021

Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Machine Learning and Deep Learning techniques

Wang, Hui Ju   Spring 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Phyton Programming Laboratory

Rathnayake, Kusal C.   Spring 2021
Department of Mathematics and Statistics, TTU
MATH 5099 Individual Study Project: Epidemic Modelling

Nicholas Watson   2018-2019
Department of Mathematics and Statistics, TTU
Mentorship in the framework of The South Plains Mathematics Fellows program for academically
talented students from underrepresented, low-income families

1 MATH 5099 Individual Study Projects CRNs: 36154   Summer 2020
1 MATH 5099 Individual Study Projects CRNs: 47578   Spring 2020
1 MATH 5099 Individual Study Projects CRNs: 38157   Fall 2019
4 MATH 5099 Individual Study Projects CRNs: 35060, 35621, 38142, 68949   Summer 2019
4 MATH 5099 Individual Study Projects CRNs: 47586, 47587, 57088, 57089   Spring 2019
3 MATH 5099 Individual Study Projects CRNs: 29975, 29976,38160   Fall 2018
3 MATH 5099 Individual Study Projects CRNs: 38139, 38229, 69660   Summer 2018

III. RESEARCH

Note: Current Research Grants

1. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;
Status: Awarded (A23-0139-001) Prime Account: 210697-E04208-200 (Active)
Title: "Soldier Information Interface for Aviation Fleet Management Tool (FLEETSPACE
Integration & Test)"
PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU), Timothy Matis
(IMMS TTU)
Amount $339,969.00.
Duration: Feb 2023 – Jun 2024
Candidate percentage of effort: 5.22%   Allocation of Credit: 17%

2. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;

Status: Awarded (A23-0086-001); Account Number: 210682-E04208-200;

Sponsor Award No: W911W6-17-3-0002 PO 435 CO000

Title: "Data Refinement and Reduction for Aviation Sustainment (DRRAS Phase II)"

PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU), Dongping Du (IMMS TTU)

Amount $524,971.00.

Duration: Aug 2022 – Apr 2024

Candidate percentage of effort: 30%   Allocation of Credit: 25%

PUBLICATIONS (referred)

<table>
<tr><td colspan="1">THE DISCLOSURE OF THE AUTHORSHIP ORDER</td></tr>
<tr><td>Students-authors are highlighted in **bold**. Dr. Dimitri Volchenkov is indicated as the first author in those publications, for which he wrote the text in full, submitted the article to an academic or scholarly journal, responded to reviewer and editor comments, and revised the manuscripts according to the suggestions and comments of the reviewers. The authorship order in the publications may not correspond to those indicated above when the co-authors insisted on a special order of authorship, such as the alphabetical order, the order of academic seniority, the order of age seniority, and the gender sensitive order (women first). Considering collegiality an important aspect of collaboration and constructive cooperation, Dr. Dimitri Volchenkov never objected to the order of authorships requested by his coauthors.</td></tr>
</table>

Research Articles in Referred Journals

Rating	Article	Contribution
4	73. Volchenkov, D. Multiplicative Renormalization of Stochastic Differential Equations for the Abelian Sandpile Model. *Dynamics* 2024, **4**, 40-56. https://doi.org/10.3390/dynamics4010003	**100%**
4	72. **Salkhi Khasraghi, G.**; Volchenkov, D.; Nejat, A.; Hernandez, R. University Campus as a Complex Pedestrian Dynamic Network: A Case Study of Walkability Patterns at Texas Tech University. *Mathematics* 2024, **12**, 140. https://doi.org/10.3390/math12010140	**40%**
4	71. **Sachith E. Dassanayaka Mudiyanselage**, Ori Swed, D. Volchenkov, "Keeping it Authentic: The Social Footprint of the Trolls' Network", Social Network Analysis and Mining, (2024) 14:38. DOI 10.1007/s13278-023-01161-1	**33%**

5	70. Kolesnikov, A.; Volchenkov, D., "Beyond Polarization: Existential Choice in an Identity Crisis". *Proceedings of the Institute of Psychology of the Russian Academy of Sciences*. **3**, 2(28) (June 2023), 43–61 (in Russian). Колесников, А. и Волченков, Д. 2023. «После поляризации: экзистенциальный выбор в условиях кризиса идентичности», *Ученые записки Института психологии РАН*. **3**, 2(28) (июн. 2023), 43–61. http://scientific-letters.ru/index.php/SLIPRAS/article/view/69	**75%**
5	69. Volchenkov. D., "Navigability, Walkability, and Perspicacity Associated with Canonical Ensembles of Walks in Finite Connected Undirected Graphs—Toward Information Graph Theory" *Information* 2023, **14**(6), 338; https://doi.org/10.3390/info14060338 Available at https://www.mdpi.com/2078-2489/14/6/338	**100%**
4	68. **Thilini Vasana Mahanama**, Pushpi Paranamana, Dimitri Volchenkov, "Predicting the Severity of Tornado Events by Learning a Statistical Manifold for Tornado Property Losses", *Journal of Environmental Accounting and Management* **12** (2), 129-140 (2024).	**33%**
3	67. O. Swed, **Sachith Eranga Dassanayaka**, Volchenkov. D., "Mapping the Russian Internet Troll Network on Twitter using a Predictive Model", LHS Publishing *Journal of Vibration Testing and System Dynamics* **7**(2) (2023) 113-128.	**33%**
5	66. **Rathnayake, K**.; Lebedev, A.; Volchenkov, D. Deciding on a Continuum of Equivalent Alternatives Engaging Uncertainty through Behavior Patterning. *Foundations* 2022, **2**, 1080-1100. https://doi.org/10.3390/foundations2040071 ; available at https://www.mdpi.com/2673-9321/2/4/71	**45%**
4	65. Vladimir I. Kartsovnik, Dimitri Volchenkov, "Elastic Entropic Forces in Polymer Deformation" *Entropy* 2022, **24**(9), 1260; available at https://www.mdpi.com/1099-4300/24/9/1260	**50%**
	64. Volchenkov D. Psychology of survival in a global risk society: the hypothesis of emigration for endurance. Proceedings of the Institute of Psychology of the Russian Academy of Sciences. 2022. Vol. 2.No. 1.Pp.68-81. (in Russian). Волченков, Д. 2022. Психология выживания в глобальном обществе риска: гипотеза об эмиграции на выносливость. *Ученые записки Института психологии РАН*. 2, 1(3) (мар. 2022), 68–81.	
4	63. Volchenkov, D., Suh, C. Steve, "Statistical Mechanics of Long Walks in Dynamic Complex Networks. Statistical Arguments for Diversifying Selection",	**75%**

Dynamics 2022, **2**(3), 252-269; MDPI Publishing, https://doi.org/10.3390/dynamics2030013 (registering DOI) https://www.mdpi.com/2673-8716/2/3/13

5	62. Volchenkov. D., "Psychology of Survival in the Global Risk Society: Models of Time", Proceedings of the Institute of Psychology of Russian Academy of Sciences, vol **1** (2), pp. 51-68, 2021 http://scientific-letters.ru/index.php/SLIPRAS/article/view/15 (in Russian). Волченков, Д. 2021. Психология выживания в глобальном обществе риска: модели времени. Ученые записки Института психологии РАН. 1, 2(2) (дек. 2021), 51–68.	**100%**
4	61. Volchenkov. D., "Assessing Pandemic Uncertainty on Conditions of Vaccination and Self-isolation", ISSN 1995-0802, Lobachevskii Journal of Mathematics, 2022, Vol. **43**, No. 2, pp. 490–500. Pleiades Publishing, Ltd., https://www.springer.com/journal/12202.	**100%**
5	60. Kovalevsky, D.V.; Volchenkov, D.; Scheffran, J. Cities on the Coast and Patterns of Movement between Population Growth and Diffusion. *Entropy* 2021, **23**, 1041. https://doi.org/10.3390/e23081041	**33%**
4	59. **Mahanama, T**., Volchenkov. D., "Tornado Property Loss Scale: Up to \$8 Billion by 2025. (Classification, Dependence, and Prediction of Tornado Events in the U.S.)" *Journal of Environmental Accounting and Management,* **10** (2), 127-142, ISSN:2325-6192 (print) ISSN:2325-6206 (online) 2022.	**50%**
5	58. Volchenkov, D., Infinite Ergodic Walks in Finite Connected Undirected Graphs. *Entropy* 2021, **23** (2), 205. https://doi.org/10.3390/e23020205 (2021)	**100%**
5	57. **Smirnov, V.**, **Ma, ZhuanZhuan**., Volchenkov, D., "Extreme Events and Emergency Scales", *Communications in Nonlinear Science and Numerical Simulation,* Vol **90**, November 2020, 105350	**33%**
5	56. Volchenkov, D., "Memories of the Future. Predictable and Unpredictable Information in Fractional Flipping a Biased Coin". *Entropy*, **21**(8), 807; https://doi.org/10.3390/e21080807 (2019).	**100%**
3	55. **Shirvani A.**, Volchenkov, D., "A Regulated Market Under Sanctions. On Tail Dependence Between Oil, Gold, and Tehran Stock Exchange Index" *Journal of Vibration Testing and System Dynamics,* **3**(3), 297-311 (2019).	**25%**

3	54. Volchenkov, D., **Smirnov, V.**, "The City of Lubbock is Running Away. Integration and Isolation Patterns in the Wandering City", *Journal of Vibration Testing and System Dynamics,* **3**(2), 121-132 (2019)	**50%**
4	53. **Smirnov, V.**, Volchenkov, D., "Five Years of Phase Space Dynamics of the Standard & Poor's 500", *Applied Mathematics and Nonlinear Sciences* **4**(1) (2019) 203–216	**50%**
2	52. Ewa Banaszak, **Debopriyo Bangerjee**, **Robert Florkowski**, Tyll Krueger, **Sudipta Saha**, D. Volchenkov," Coding and modelling of daily dress – about scientists coming out of the closet". *Fabrica Societatis*. 2018, vol. **1** (1), 33-53 Instytut Socjologii Uniwersytetu Wrocławskiego, Wrocław, Poland	**20%**
3	51. M. Serva, **D. Vergni**, D. Volchenkov and A. Vulpiani "Recovering geography from a matrix of genetic distances", *European Physics Letters* **118** (2017) 48003.	**25%**
3	50. Atay, F., **Banisch S.**, Blanchard, Ph., Cessac, B., Olbrich, E., Volchenkov, D., "Perspectives on Multi-Level Dynamics", *Discontinuity, Nonlinearity, and Complexity*, Vol. **5** (3), 313－339 (2016).	**15%**
4	49. Volchenkov, D., Warglien M., **Cabigiosu, A**., "We speak up the time, and time bespeaks us", *Discontinuity, Nonlinearity, and Complexity*, Vol. **5** (4) 375－395 (2016).	**80%**
4	48. Volchenkov, D., **B. Bläsing**, Th. Schack, "*Spatio-Temporal Kinematic Decomposition of Movements*", *Engineering* **6**, 385-398 (2014)	**80%**
3	47. Volchenkov, D., E. Banaszak, **K. Kocjan**, T. Krüger, "I dress like everyone, I dress like no other", Discontinuity, Nonlinearity, and Complexity **3**(2) (2014) 147–159	**80%**
4	46. Volchenkov, D., "Path integral distance for the automated data interpretation", Discontinuity, Nonlinearity, and Complexity **3**(3) (2014) 255 - 279. The special issue on Mathematics of Multi-level Anticipatory Complex Systems (2014).	**100%**
3	45. Volchenkov, D., "Mathematics of Multi-Level Complex Systems", Discontinuity, Nonlinearity, and Complexity **3**(3), 223-225. (2014).	**100%**
3	44. Volchenkov, D., **Jonathan Helbach**, Marko Tscherepanow, Sina Kühnel," Treasure Hunting in Virtual Environments. Scaling Laws of Human Virtual	**75%**

Motions and Mathematical Models of Human Actions in Uncertainty", *Discontinuity, Nonlinearity and Complexity* **3**(1), 1 -17 (2014)

4	43. Volchenkov, D., **Helbach J**., Tscherepanow M, Kühnel S. ,"Exploration-exploitation Trade-off in a Treasure Hunting Game", *Electronic Notes in Theoretical Computer Science,* Vol. **299**, 25 December 2013, Pages 101–121, PII: S1571-0661(13)00080-7 (2013)	**80%**
3	42. Volchenkov, D., Helbach **J**., Tscherepanow M, Kühnel S. "Exploration–exploitation trade-off features a saltatory search behaviour". *Journal Royal Society Interface* **10**: 20130352 (2013).	**70%**
3	41. **Filippo Petroni**, Maurizio Serva, Volchenkov, D, Søren Wichmann, "From Indonesia to Madagascar: in search of the origins of the Malagasy language." *Indian Ocean Review of Science and Technology* ISSN 2312-1874, Published *by Institut Supérieur Polytechnique de Madagascar* (ISPM), Article 1/2013, 1 -13 (2013)	**25%**
3	40. Volchenkov, D., "Markov Chain Scaffolding of Real World Data", *Discontinuity, Nonlinearity, and Complexity* **2**(3) 289–299 (2013)| DOI: 10.5890/DNC.2013.08.005.	**100%**
3	39. Volchenkov, D., "Tsunami waves as critical phenomena"*, Indian Ocean Review of Science and Technology,* Institut Supérieur Polytechnique de Madagascar (ISPM), Article 2/2013, 1 -15 (2013).	**100%**
5	38. **W.M. Land**, Volchenkov, D., B. Bläsing, Th. Schack, "From Action Representation to Action Execution: Exploring the Links Between Cognitive and Biomechanical Levels of Motor Control", *Frontiers in Computational Neuroscience* **7**: 127, 1-14 (2013). doi: 10.3389/fncom.2013.00127	**35%**
4	37. Volchenkov, D., B. Bläsing, Spatio-temporal analysis of kinematic signals in classical ballet, *Journal of Computational Science* **4** (4), 285–292 (2013) . On-line: ISSN 1877-7503, 10.1016/j.jocs.2012.06.008	**80%**
3	36. Volchenkov, D., Ph. Blanchard, T. Krüger, "Heavy-tailed Distributions In Some Stochastic Dynamical Models"*, Discontinuity, Nonlinearity and Complexity* **1**(1), 1 -40 (2012)	**80%**

4	35. Volchenkov, D., **J.-R. Dawin**, "Musical Markov Chains ", *International Journal of Modern Physics* **16** (1) , 116-135 (2012) DOI: 10.1142/S2010194512007829	**50%**
3	34. Volchenkov, D., Ph. Blanchard, "Mathematical Analysis of Complex Networks and Databases", IAMP News Bulletin, International Association of Mathematical Physics, Ed. V.A. Zagrebnov, (January 2012), pp 17-22.	**99%**
4	33. Maurizio Serva, Volchenkov, D., **F. Petroni**, Søren Wichmann, "Malagasy Dialects and the Peopling of Madagascar", *Journal of Royal Soc. Interface*, **9**(66):54-67, doi:10.1098/rsif.2011.0228 (2011)	**25%**
5	32. Volchenkov, D., Ph. Blanchard, **F. Petroni**, M. Serva, "Geometric representations of language taxonomies," *Computer Speech and Language* DOI: 10.1016/j.csl.2010.05.003. On-line: http://dx.doi.org/10.1016/j.csl.2010.05.003 (2010); *Computer Speech and Language* **25**, 679–699 (2011).	**60%**
5	31. Volchenkov, D., Ph. Blanchard, **J.-R. Dawin**, "Markov Chains or the Game of Structure and Chance. From Complex Networks, to Language Evolution, to Musical Compositions", *The European Physical Journal - Special Topics* **184**, 1-82 © Springer Berlin / Heidelberg (2010).	**90%**
5	30. Volchenkov, D., "Random Walks and Flights over Connected Graphs and Complex Networks", *Communications in Nonlinear Science and Numerical Simulation*, **16** (2011) 21–55 http://dx.doi.org/10.1016/j.cnsns.2010.02.016 (2010).	**100%**
4	29. Maurizio Serva, Volchenkov, D.**,** Philippe Blanchard, **Eric W. Holman**, **Filippo Petroni**, Søren Wichmann, "The phylogeny of Malagasy dialects", in *Text Processing and Cognitive Technologies* **19**, Kazan University Publ. (Kazan, Russia), 253-256 (2010).	**45%**
5	28. Volchenkov, D., "What is control of turbulence in crossed fields?" *Communications in Nonlinear Science and Numerical Simulation, 15* pp. 149-181 (2009).	**100%**
4	27. Volchenkov, D., Ph. Blanchard, "Probabilistic embedding of discrete sets as continuous metric spaces", *Stochastics: An International Journal of Probability and Stochastic Processes* (formerly: *Stochastics and Stochastics Reports*) **81**(3), 259-269 (2009)	**99%**

5	26. Volchenkov, D., "Renormalization group and instantons in stochastic nonlinear dynamics: From self-organized criticality to thermonuclear reactors." *The European Physical Journal - Special Topics* 1951-6355 Volume **170**(1), pp.1-142 © Springer Berlin/ Heidelberg (2009)	**100%**
4	25. Volchenkov, D., Ph. Blanchard, "Markov Chain Methods For Analyzing Urban Networks" *Journal of Statistical Physics*, 1572-9613 (Online), Vol. **132**, Number 6 /September, DOI 10.1007/s10955-008-9591-2, Pages 1051-1069 (2008).	**99%**
4	24. Volchenkov, D., Ph. Blanchard, "Intelligibility and first passage times in complex urban networks", *Proc. R. Soc. A* **464**, 2153–2167 (2008).	**99%**
4	23. Volchenkov, D., Ph. Blanchard, "Scaling and Universality in City Space Syntax: between Zipf and Matthew", *Physica A* **387**:2353-2364 (2008).	**99%**
3	22. Volchenkov, D., "Analysis of urban complex networks", ISSN 1607-324X *Condensed Matter Physics*, Vol. **11**, No 2(54), pp. 331–340 (2008)	**100%**
3	21. Volchenkov, D., R. Lima, "Asymptotic series in dynamics of fluid flows: Diffusion versus bifurcations," *Communications in Nonlinear Science and Numerical Simulation* **13** (7) 1329–1342 (2008).	**99%**
3	20. Volchenkov, D., Ph. Blanchard, "Random Walks Along the Streets and Channels in Compact Cities: Spectral analysis, Dynamical Modularity, Information, and Statistical Mechanics", *Phys. Rev. E* **75**, 026104 (2007).	**99%**
4	19. Volchenkov, D., Ph. Blanchard, "Nonlinear Diffusion through Large Complex Networks with Regular Subgraphs", *Journal of Statistical Physics* **127** (4), 677-697 (2007).	**99%**
4	18. Volchenkov, D., R. Lima, "Stochastic and Discrete Time Models of Long-Range Turbulent Transport in the Scrape-Off Layer ", *Int. Journal of Mod. Physics B*, Vol. **19**, No. 28, 4195-4218 (2005).	**99%**
4	17. Volchenkov, D.," Stochastic Models of Edge Turbulent Transport in the thermonuclear reactors", *IoP: Journal of Physics* Vol. **7**, pp. 214-226 (2005).	**100%**
3	16. Volchenkov, D., R. Lima," Random Shuffling of Switching Parameters in a Model of Gene Expression Regulatory Network", *Stochastics and Dynamics* **5** (1), pp. 75-95 (2005).	**99%**

15. **E. Floriani**, Volchenkov, D., R. Lima, "A System close to a threshold of instability", *J. of Physics A*: Math. General **36**, 4771-4783 (2003).

4 — **33%**

14. Volchenkov, D., L. Volchenkova, Ph. Blanchard, "Epidemic Spreading In A Variety Of Scale Free Networks", *Physical Review E* **66** (4), 046137 (2002).

5 — **60%**

13. Volchenkov, D., L. Volchenkova, Ph. Blanchard, "Epidemic Spreading In Scale Free Networks". Virtual *Journal of Biological Physics Research*, Vol. **4** (9) (2002).

4 — **70%**

12. Volchenkov, D., Blanchard, Ph., "An algorithm generating random graphs with power law degree distributions. *Physica A* -Statistical Mechanics And Its Applications **315** (3-4): 677–690 (2002).

4 — **99%**

11. Volchenkov, D., **S. Sequeira**, Ph. Blanchard, M.G. Cosenza, "Transitions to Intermittency and Collective Behavior in Randomly Coupled Map Networks", *Stochastic and Dynamics* **2** (2), 203-223 (2002).

4 — **70%**

10. Volchenkov, D., Cessac B., Blanchard, Ph., "Quantum Field Theory Renormalization Group Approach To Self-Organized Critical Models. The Case Of Random Boundaries", *Intern. Jour. of Mod. Phys*. B**16** (8) 1171-1204 (2002).

4 — **85%**

9. Volchenkov, D., Lima. R., "Instanton solutions in the problem of wrinkled flame-front dynamics", *Phys. Rev. E* **64** (1), 011204-011219 (2001).

4 — **99%**

8. Volchenkov, D., "The Bending Instability in the Vorticity Transport through a Turbulent Flow. Feedback Chaos Controlling and Dynamical Symmetry Breaking", *Intern. Jour. of Mod. Phys. B* **15** (7/8) 1147-1164 (2001).

4 — **100%**

7. Volchenkov, D., Lima, R, "A phase transition in the water coupled to a local external perturbation", *Chaos* **10** (4) 803-711 (2000).

4 — **99%**

6. Volchenkov, D., Lima, R., "Renormalization group approach to the problem of flow through irregular packed beds." *Intern. Jour. of Mod. Phys. B* **14** (9) 963-981 (2000).

4 — **99%**

5. Volchenkov, D.," Field-theoretic approach to a stochastic magnetohydrodynamics: the dimensions of composite operators. ", *Phys. Lett. A*, **265** (1-2), 117-122 (2000).

4 — **100%**

Rating	Article	Contribution
3	4. Volchenkov, D., "Composite operators of the canonical dimension $d = 3$ in magneto-hydrodynamic turbulence." Acta of the Saint Petersburg State University, Series 4: *Physics & Chemistry*, **2** (18) 9-16 (1997) (in Russian)	**100%**
3	3. Volchenkov, D., Adzhemyan L., Nalimov M., "Renormalization group study of correlation functions and composite operators in the stochastic magneto-hydrodynamics model." *Theoretical and Mathematical Physics* 107 (1) 533-543 (1996).	**80%**
3	2. Volchenkov, D., Nalimov, M., "The corrections to fully developed turbulent spectra due to the compressibility of fluid", *Theoretical and Mathematical Physics* **106** (3) 307-318 (1996).	**80%**
2	1. Volchenkov, D., Borin, V., "Quantum-field renormalization group approach to the theory of turbulence: critical scaling and the critical dimensions of composite operators", Acta of Saint Petersburg State University, Series 4: Physics & Chemistry, **2** (11) 55-64 (1994) (in Russian).	**90%**

Currently Submitted Research Articles

Rating	Article	Contribution
	Sithma Jayawardena, Ori Swed, Dimitri Volchenkov; "Politically Critical Period: Elections and Political Violence in Africa", Journal: Electoral Studies Manuscript Number: JELS-D-23-00262.	

Selected Publications on Education and Teaching

Article	Contribution
7. Volchenkov, D., "*400 Etudes in Physics. The selected problems of the Saint Petersburg Physics Olympiads*". The Publishing house of the *Moscow Center for Continuous Mathematical Education Moscow* © 2008 (in Russian) 497 pages.	**100%**
6. Volchenkov, D.: *Art of Problem Solving in College Physics*, 222 pages, the Education Committee of St-Petersburg Administration and St.-Petersburg State University, St.-Petersburg (in Russian) (2004).	**100%**
5. Volchenkov, D.: *Advanced Problems in College Physics*, Annual Brochure issued by the Education Committee of St-Petersburg Administration and St.-Petersburg State University, St.-Petersburg,	**100%**

Annual Issues: 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, ©Education Committee of St-Petersburg Administration, ©Saint-Petersburg State University (in Russian) 1995-2004.

4. Volchenkov, D.: *Selected Problems of St.-Petersburg's Physics Olympiads*. In memoriam of 275 Anniversary of St.-Petersburg State University, ISBN: 5-88494-063-7, ©Education Committee of St-Petersburg Administration, ©St.-Petersburg State University, St.-Petersburg, 124 pages (in Russian) (2003). **100%**

3. Volchenkov, D.: *Supply on Advanced Problems in College Physics*, ©Education Committee of St-Petersburg Administration, ©St.-Petersburg State University, St.-Petersburg, 104 pages (in Russian) (1999). **100%**

2. Volchenkov, D., R. Kolalis, A. Kurdyumov: *St.-Petersburg Physics Olympiads*, Acta of Russian Education Ministry: Physics, N24 April 2003 (in Russian). **33%**

1. Volchenkov, D., Kovalevsky D., "Selected problems of Saint Petersburg Physics Olympiad", *Quantum* **75**, 84-85 (1993) (in Russian). **50%**

Publicist articles

1. Volchenkov, D., "Russia as an alternative to life?" Demographic prospects of the Russian Federation. *"Deal"*, a Weekly Newspaper (Дело), 12/1/2008 (in Russian). Available at http://www.idelo.ru/534/17.html **100%**

Monographs (Contribution 100%)

Book Title	Sold Chapters
7. Volchenkov, D., " Grammar of Complexity: From Mathematics to a Sustainable World", in *World Scientific* Series "*Nonlinear Physical Science*", ISBN: 978-981-3232-49-5 (hardcopy), 981-3232-49-8; ISBN: 978-981-3232-50-(ebook), 981-3232-50-1(ebook), 300 pp, Mar 2018	**9,345**
6. Volchenkov, D., "*Survival under Uncertainty an Introduction to Probability Models of Social Structure and Evolution*", Springer Series: *Understanding Complex Systems*, 240 pages, ISBN 978-3-319-39419-0, Berlin / Heidelberg © 2016.	**8,580**
5. Volchenkov, D., Ph. Blanchard, "Introduction to Random Walks and Diffusions on Graphs and Databases", © *Springer Series in Synergetics, Vol. 10,* Berlin / Heidelberg,	**19,248**

ISBN 978-3-642-19591-4, 340 pages; http://dx.doi.org/ 10.1007/ 978-3-642-19592-1 (2011).

4. Volchenkov, D., Ph. Blanchard, *Mathematical Analysis of Urban Spatial Networks,* © Springer Series *Understanding Complex Systems*, Berlin / Heidelberg. ISBN 978-3-540-87828-5, 181 pages (2009).   **11,572**

3. Volchenkov, D., "*400 Etudes in Physics. The selected problems of the Saint Petersburg Physics Olympiads*". The Publishing house of the Moscow Center for Continuous Mathematical Education Moscow © 2008 (in Russian) 497 pages.

2. Volchenkov, D., «*Utilisation des Méthodes Nonperturbatives de Théorie Quantique des Champs en Dynamique Stochastique*», 212 pages© University of Aix-Marseille-2 (2007). (in French)

1. Volchenkov, D**.**, "*Renormalization group in the theory of fully developed turbulence*", Ph D Thesis, 112 pages© Saint Petersburg State University (1996)

Edited Contributed Volumes and Journal Special Issues

Title

11. "New Perspectives on Nonlinear Dynamics and Complexity", Springer Series Nonlinear Systems and Complexity (NSCH, volume **35**), Eds: Dimitri Volchenkov, Albert C. J. Luo, ISBN: 978-3-030-97328-5 DOI https://doi.org/10.1007/978-3-030-97328-5 (16 Sep, 2022)
 https://link.springer.com/book/10.1007/978-3-030-97328-5

10. Special Issue "*Entropic Forces in Complex Systems II*" (Guest Ed.: Volchenkov, D) *Entropy* (ISSN 1099-4300) Section "Complexity" https://www.mdpi.com/journal/entropy/special_issues/EFCS_II Deadline for manuscript submissions: 15 July 2022

9. Special Issue "*Modeling and Forecasting of Rare and Extreme Events*" (Guest Eds.: Volchenkov, D., J.A. Tenreiro Machado) *Entropy* (ISSN 1099-4300) Section "Complexity" (6 papers) https://www.mdpi.com/journal/entropy/special_issues/Forecast (closed Dec 15, 2021)

8. "*Mathematical Topics on Modelling Complex Systems*", Tenreiro Machado, J. A., Volchenkov, Dimitri (Eds.), Springer International Publishing, Vol. **X** in Series *Nonlinear Physical Science*, DOI: 10.1007/978-981-16-4169-5, Hardcover ISBN-13:978-981-16-4168-8, February 15, 2022 https://www.springer.com/us/book/9789811641688

7. "*The Many Facets of Complexity Science*", Volchenkov, Dimitri (Ed.), Springer International Publishing, Vol. **VII** in Series "*Nonlinear Physical Science*", Springer International Publishing AG, Beijing, & Berlin

Heidelberg, Aug 2021 (EU), September 2021 (USA) ISBN: 978-981-16-2853-5
https://link.springer.com/book/10.1007%2F978-981-16-2853-5

6. "*Mathematical Methods in Modern Complexity Science*", Volchenkov, Dimitri, Tenreiro Machado, J. A. (Eds.), Springer International Publishing, Vol. **33** in Series *Nonlinear Systems and Complexity*, V. 250 pages, DOI: 10.1007/978-3-030-79412-5, Hardcover ISBN: 978-3-030-79411-8, eBook ISBN: 978-3-030-79412-5, June 2022 https://www.springer.com/gp/book/9783030794118

5. "*Nonlinear Dynamics, Chaos, and Complexity. In Memory of Professor Valentin Afraimovich*, (Ed.: Volchenkov, D.) in Springer Series "*Nonlinear Physical Science*", Springer International Publishing AG, Beijing, & Berlin Heidelberg (January 14, 2021). https://www.springer.com/gp/book/9789811590337

4. Special Issue " *Entropic Forces in Complex Systems*", (Ed.: Volchenkov, D.) *Entropy* (ISSN 1099-4300) Section "Complexity" https://www.mdpi.com/si/entropy/EFCS (28 February 2021)

3. Special Issue "*Mathematical Analysis of Urban Spatial Networks*", (Ed.: Volchenkov, D.) *Entropy* (ISSN 1099-4300) Section "Complexity"
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2. "*Regularity and Stochasticity of Nonlinear Dynamical Systems*" (Eds.: Volchenkov, D., Leoncini, X.) 12 chapters, in Springer/HEP Series "*Nonlinear Systems and Complexity*", DOI 10.1007/978-3-319-58062-3, Electronic ISBN: 978-3-319-58062-3, Print ISBN: 978-3-319-58061-6Springer International Publishing AG, Beijing, & Berlin Heidelberg (2017).

1. *Mathematics of Multi-level Anticipatory Complex Systems* (Ed.: Volchenkov, D**)** of the Journal *Discontinuity, Nonlinearity, and Complexity* 3(3), 2014. ISSN 2164-6376 (print), ISSN 2164-6414 (online)

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Chapter	Contribution
59. **Shirvani, A.,** Volchenkov, D. "A Regulated Market Under Sanctions. On Tail Dependence Between Oil, Gold, and Tehran Stock Exchange Index". In: Tenreiro Machado, J.A., Volchenkov, D. (eds) *Mathematical Topics on Modelling Complex Systems.* Ch.6, pp. 87-104. In *Nonlinear Physical Science* Springer book series, Singapore. https://doi.org/10.1007/978-981-16-4169-5_6 (09 June 2022).	**50%**
58. Volchenkov, D., "A Pandemic Three-Sided Coin". In Carla M.A. Pinto (eds) *Nonlinear Dynamics and Complexity. Mathematical Modelling of Real-World Problems*. In Springer	**100%**

Series *Nonlinear Systems and Complexity*, vol **36**, Ch. 14, pp. 301-315
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16. Volchenkov, D.Yu., Lebedev, A.N., "Analysis of behavioral patterns in unbiased choice. Synthesis of statistical and machine learning methods in a data ecosystem", pp. 49-55 in "Mathematical Psychology: Current State and Prospects". Proceedings of the international scientific conference dedicated to the 90th anniversary of the birth of V.Yu. Krylova, October 26–27, 2023, Moscow, Eds.: D.V. Ushakov, A.L. Zhuravlev, T.N. Savchenko, G.M. Golovin, (c) Russian Academy of Sciences, Institute of Psychology (2023) (in Russian).	**75%**
Волченков, Д.Ю., Лебедев, А.Н., «Анализ Поведенческих Шаблонов Равнозначного Выбора. Синтез Методов Статистики И Машинного Обучения в Экосистеме Данных», стр. 49-55 в «Математическая психология: современное состояние и перспективы». Материалы международной научной конференции, посвященной 90-летию со дня рождения В.Ю. Крылова, 26–27 октября 2023 г., Москва, Ред.: Д.В. Ушаков, А.Л. Журавлев, Т.Н. Савченко, Г.М. Головина, Российская академия наук, Институт психологии (2023)	
15. Ewa Banaszak, **Debopriyo Banerjee**, Robert Florkowski, **Agnieszka Ginter**, Patrycja Karpińska, **Konrad Kocjan**, Tyll Krueger, **Sudipta Saha**, Dima Volchenkov, "Men And The Clothing. Wrocław Fashion Project", pages 67-80 in "Fashion On The Move: Rethinking Design" (Eds., Alicia Urgellés Molina, Marta Torregrosa Puig, Cristina Sánchez-Blanco), The Proceedings of 10th International Fashion Conference, Servicio de publicaciones de la Universidad de Navarra, Pamplona (2016);	**15%**
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4. Ph. Blanchard, Volchenkov, D "Thermodynamics of Coupled Piece-Wise Linear Chaotic Maps Defined on Random Regular Graphs". Paper # 50;	**99%**
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> - Benoit Rittaud, "Repérer les ghettos", *La Recherche* **415***, 28 (2008).*
> - "The future poverty hiding in cities", *Australasian Business Intelligence* November 12, 2007.

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ArXiv:cond-mat/0303454 (2003).   **50%**

TV broadcasts

Broadacsts	Contribution
M. Puttke, B. Bläsing, Volchenkov, D., "*Ballett im Hightech-Labor*"; 3sat.de : FOYER – Das Theatermagazin; Dienstag, 13. July 2010, 22:25. (in German)	**33%**

Submitted Patent Applications

RESEARCH AWARDS

International George M. Zaslavsky Award	2020
Nonlinear Science and Complexity Conference Series,	
in testimony of the high regard of achievements in Nonlinear Science and Complexity	
http://ndc.lhscientificpublishing.com/awardees-2020/	

"Nationally Recognized Talent",	2016
The Thousand Talents Plan of China	

Alexander von Humboldt Research Award, AvH Foundation, Germany	2000
Young Scientists Federal Award, Education & Science Ministry, Russia	1995
George Soros Graduate Student Award Open Society Institute, New York, USA	1995
Young Scientists Federal Award, Education & Science Ministry, Russia	1994

PROFESSIONAL PRESENTATIONS AND CONFERENCE SESSION CHAIRING

Conferences and Workshops

10/2023	"Analysis of behavioral patterns of equal choice / Synthesis of statistical and machine learning methods in a data ecosystem" in "Mathematical psychology: current state and prospects", Scientific conference on mathematical psychology, dedicated to the 90th anniversary of the birth of V.Yu. Krylov, Institute of Psychology of the Russian Academy of Sciences (IP RAS), 10/26-27/2023, Moscow (Russia)
02/2023	with O. Swed, **Sachit Dassanayaka**, "The social footprint of Russian Trolls in influence operations" at Eastern Sociological Society Conference 2023, Hyatt Regency Baltimore in the Inner Harbor, February 23-26, 2023
11/2022	with **Md Saiful Islam Saif & Naima Alam**, "Imbalanced Machine Learning Technique to Predict Heart Disease", Poster, 5th Annual Meeting of the SIAM Texas-Louisiana Section. Hosted by the University of Houston, TX, November 4- 6, 2022.
11/2022	with **Naima Alam**, "Model selection for zero inflated count data from Demographic Health Survey", Poster, 5th Annual Meeting of the SIAM Texas-Louisiana Section. Hosted by the University of Houston, TX, November 4- 6, 2022.
10/2022	with O. Swed, **Sithma Jayawardena**, "Elections and Political Violence in Africa" The International Studies Association Southern Region, ISA-South St. Augustine 2022 Conference, October 7-8 in St. Augustine, FL hosted by Flagler College, "Rethinking Globalization: A Local Look at Global Issues."
09/2022	with Steve Suh (TAMU), Joint Invited talk entitled "Statistical Mechanics of Dynamic Complex Networks at the Online Conference on Nonlinear Science and Complexity", which took place during September 26-29, 2022 in Thessaloniki, Greece.

09/2022	with O. Swed, **Sithma Jayawardena**, "Politically Critical Period: Elections and Political Violence in Africa" at Table 13: Discourse on Politics in Political Sociology Roundtables at the American Social Association (ASA) Annual Meeting 2022.
03/2022	"Fractional Markov Chains" on the "Fractional kinetics, hydrodynamic limits and fractals" workshop at the Isaac Newton Institute for Mathematical Sciences, Cambridge, UK Mon 21st Mar 2022 - Fri 25th Mar 2022
01.2022	with O. Swed, **Sithma Jayawardena**, "Elections and Political Violence in Africa", Southern Political Science Association Annual Meeting panel: Civil Conflict and Political Violence, Jan 15 2022, University of Houston, TX
03.2022	with O. Swed, **Sachit Dassanayaka**, "Keeping it Authentic: The Social Footprint of the Trolls' Network", 92nd Annual Meeting 2022 Eastern Sociological Society Meeting "Strategic Sites and Ways for Sociology to Fight Inequality and Injustice". March 10-13, 2022, Boston, MA
02.2022	with O. Swed, **Sachit Dassanayaka**," A Neural Network model to map the Russian Information Operation Networks and Three-Dimensional Geometric Visualization" 2022 American Statistical Association Conference on Statistical Practice, Session Type: Poster Session Topic: Implementation and Analysis, Feb 1-3, 2022, New Orleans, Louisiana.
01.2022	with O. Swed, **Sachit Dassanayaka**," A Model to Uncover the Concealed Activity Trends of the Russian Information Operation Networks through a Geometric Representation", 2022 Joint Mathematics Meetings (JMM 2022), AMS Contributed Paper Session, January 5-8, 2022, Seattle, WA
10.2021	The 2nd Online Conference on Nonlinear Dynamics and Complexity, October 4-6 2021 http://second.ndc.lhscientificpublishing.com, The Instituto Politécnico do Porto, Greenwich Mean Time PORTUGAL INVITED TALK: "Assessing Pandemic Uncertainty on Conditions of Vaccination and Self-isolation"
10.2021	Chairing the Invited talks sessions @ The 2nd Online Conference on Nonlinear Dynamics and Complexity, http://second.ndc.lhscientificpublishing.com, The Instituto Politécnico do Porto, October 4-6 2021 Greenwich Mean Time PORTUGAL

11.2021	with **Thilini Mahanama**, Title: "Recovering the Compensation Strategies for Tornado-induced Property Losses via Statistical Manifold Learning", 11/24-26/2021 International Conference on Multidisciplinary Approaches in Science – 2021, Faculty of Science, University of Colombo, Sri Lanka
03.2021	with **Thilini Mahanama**, Title: "Tornado Property Loss Scale: Up to $8 Billion by 2025. Classification, Dependence, and Prediction of Tornado Events in the U.S.", 2021 ASA Symposium on Data Science & Statistics Abstract ID: 309825 Session Type: Lightning Topic: Practice and Applications. Virtually June 2–4, 2021
11.2020	Chairing the Nonlinear Dynamics and Complexity (General) session @ The 1st Online Conference on Nonlinear Dynamics and Complexity Central Time Zone, USA, Nov 23-28 2020 http://ndc.lhscientificpublishing.com/plenary-talks/.
11.2020	Chairing the Invited talks sessions @ The 1st Online Conference on Nonlinear Dynamics and Complexity http://ndc.lhscientificpublishing.com/plenary-talks/; Central Time Zone, USA, Nov 23-28 2020.
11.2020	Keynote/Plenary Address @ The 1st Online Conference on Nonlinear Dynamics and Complexity http://ndc.lhscientificpublishing.com/plenary-talks/; Central Time Zone, USA, Nov 23-28 2020.
11.2020	"How Structure Creates Force", Inaugural Talk in response to *George M. Zaslavsky Award* (International) issued by the Nonlinear Science and Complexity Conference Series (http://ndc.lhscientificpublishing.com/awards/) in testimony of the high regard of achievements in Nonlinear Science and Complexity (USA) @ The 1st Online Conference on Nonlinear Dynamics and Complexity http://ndc.lhscientificpublishing.com/plenary-talks/; Central Time Zone, USA, Nov 23-28 2020.
10.2020	with **Thilini Mahanama**, "Tornado Property Loss Scale: Up To $8 Billion By 2025" Poster, 3rd Annual Meeting of the SIAM Texas-Louisiana Section & the Department of Mathematics at Texas A&M University October 16 - October 18, 2020
10.2020	with **Thilini Mahanama**, "Tornado Property Loss Scale: Up To $8 Billion By 2025" Poster on the 2020 Women in Statistics and Data Science Virtual Conference, American Statistical Association (10.01.2020)
06.2020	with **Thilini Mahanama**,

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2020 ASA Symposium on Data Science & Statistics in Pittsburgh, Pennsylvania, June 3–6, 2020 POSTER: abstract ID # 308322, titled "A Severe Weather Index Based on the Historic National Oceanic and Atmospheric Administration (NOAA) Data."

with **Thilini Mahanama**,

02.2020 2020 ASA Conference on Statistical Practice (CSP) in Sacramento, CA, February 20–22 POSTER: abstract ID #304047, titled "A Severe Weather Index Based on the Historic National Oceanic and Atmospheric Administration (NOAA) Data."

08.2018 7th International Conference on Nonlinear Science and Complexity,
San Luis Potosí, México, August 14–17th, 2018
INVITED TALK: Complexity Grammar.

XVI Emmy Noether High School Mathematics Days,
Department of Mathematics and Statistics, Texas Tech University

05.2018
- POSTER: Smart and connected model for water resource management
- POSTER: Decoding United States Severe Weather Events

Summer Workshop on Nonlinear Dynamical Systems,
Sichuan University of Science and Engineering, Zigong, China, 8- 9 May 2017

05.2017
- INVITED TALK: An introduction to Probability Models of Social Structure and Evolution
- INVITED TALK: Data Analysis by Scale Dependent Anisotropic Random Walks.

10th International Fashion Conference: Fashion On The Move: Rethinking Design
University of Navarra, April 20-22st, 2016 Pamplona, Spain.

04.2016 INVITED TALK: Men and The Clothing. Wrocław Fashion Project

Biofotonica, Ciencia y Aplicaciones, XVI Semana del IICO
San Luis Potosi, SLP, Mexico, 16-19 April, 2016,

04.2016
- INVITED TALK: Geometrize everything with Monge-Kantorovich?
- INVITED TALK: Survival under Uncertainty An Introduction to Probability Models of Social Structure and Evolution.

Complex Networks Winter Session 2016
Ibaraki University, Mito, Ibaraki, Japan, March 7-9, 2016

03.2016 INVITED TALK: The Kantorovich transportation metric for networks and databases.

The Innovation, Organization, and Strategy

12.2015 Università Ca'Foscari di Venezia, Italy, December 17-18, 2015
INVITED TALK: We speak up the time, and time bespeaks us.

The international Conference Dynamics of Multi-Level Systems
The Max Planck Institute for the Physics of Complex Systems

06.2015 Dresden, Germany,15 - 19 June 2015
INVITED TALK: Time and Institutions.

Workshop: Mathematics of Complex Systems,
Center for Interdisciplinary Research, Bielefeld University, March 18 -19, 2015

03.2015 INVITED TALK: Quantum Field Theory methods in neuronal networks dynamics.

MatheMACS Fall Meeting
MPI for Mathematics in the Sciences Leipzig, Germany, 2-5 December 2014

12.2014 INVITED TALK: Collection and processing of empirical data on multimodal human communications.

Workshop Analytical approaches to financial and economic problems
Università Politecnica delle Marche in Ancona, Italy, September 9-10 2014

- INVITED TALK: Integration of databases for forecasting the future trends: Maddison
09.2014   historical GDP +Polity IV (Political Regimes) + The World Top income database;
- INVITED TALK: Acceleration of time & hyper-competition as the key factors of evolution & sustainable development.

ECCS'14 European Conference on Complex Systems
IMT Institute for Advanced Studies, Lucca, Italy, 22-26 September 2014

09.2014 • POSTER: Real world data analysis and interpretation with random walks;
- POSTER: Exploration, Exploitation, and Evolution. In search of a unified theory

The 6th Meeting of the Theoretical Organization Models Society
University of Southern Denmark, Odense, 6-8 June 2014

- POSTER: Acceleration of time & hyper-competition as the key factors of evolution
06.2014   & sustainable development;
- OFFICIAL DISCUTANT: An Introduction to Sequential Dynamical Systems.

MatheMACS Spring Meeting
INRIA , Sophia-Antipolis, France, May 14-15, 2014

05.2014 INVITED TALK: Analysis and Validation of Data from Multi-Level Anticipatory Complex Systems.

Workshop: Non-Commutative Stochastic Systems: Analysis, Modelling, and
02.2014 Applications
Tohoku University, Sendai, Japan, February 3 - 7, 2014

- INVITED TALK: Path-integral distance for the data analysis;
- INVITED TALK: Coherent noise models for Exploration, Exploitation, and Evolution.

12.2013	Workshop Mathematical Technology of Networks- QGraphs, Bielefeld University, Germany, December 4-7 2013 INVITED TALK: Random Walks for Data Analysis.
12.2013	MatheMACS Fall Meeting Max-Planck-Institute for Mathematics in the Sciences, Leipzig, Germany 2-5 Dec. 2013 INVITED TALK: Path integral as a graph theoretic distance.
10.2013	The joint TOPDRIM - MATHEMACS workshop Mathematics of Complex Systems Bielefeld University, Germany, October 7 - 9 2013 INVITED TALK: The realm of Random Walks.
09.2013	ECCS'13 European Conference on Complex Systems Satellite meeting: Mathematical Methods in Multi-Level Systems Barcelona, Spain, 16-20 September 2013. INVITED TALK: Random Walks for Data Analysis.
09.2013	Fashion: Exploring Critical Ideas Mansfield College, Oxford University, UK, 9-12 September 2013 TALK: Coding and Modelling Daily Life Dressing
06.2013	CS2Bio 2013, 4th International Workshop on Interactions between Computer Science and Biology, Florence, Italy, 6-9 June 2013 TALK: Exploration-exploitation trade-off in a treasure hunting game.
05.2013	MatheMACS Spring Meeting Max-Planck-Institute Mathematics in the Sciences Leipzig, Germany, 13-15 May, 2013 INVITED TALK: Analysis and Validation of Data from Multi-Level Anticipatory Complex Systems.
05.2013	AMARSi Workshop (Compliant Mechanics, Morphological Computation, Human And Robotic Motor Control) Bielefeld University, Germany, May 22 – 24 2013

POSTER: From Action Representation to Action Execution: Exploring the Links Between Mental Representation and Movement.

02.2013	234 Ecole de Physique Univerisy of Geneve, Genève, Switzerland INVITED TALK: Markov Chain Analysis of Complex Networks and Databases.
10.2012	Workshop: Mathematics of Multi-level Anticipatory Complex systems The Max Planck Institute Mathematics in the Sciences, Leipzig, Germany 15-17 Oct 2012 INVITED TALK: Data Analysis of Multi-level systems
10.2012	Workshop: Data Analysis Center for Interdisciplinary Research, Bielefeld University, Germany 7-9 October 2012 INVITED TALK: Analysis and Validation of Data in Multi-level systems.
09.2012	CREST Workshop Random Media II Tohoku University, Sendai, Japan September 3-7 2012 • INVITED TALK: Introduction to Random Walks and Diffusions to Network and Databases: from Electric Network to Urban Spatial Networks; • INVITED TALK: Markov chain methods in Language Evolution and Musical Dice Games.
07.2012	The International Conference on Nonlinear Dynamics and Complexity Jinan, Shandong, China, July 23-29, 2012 INVITED TALK: Mathematical Analysis of Complex Networks and Databases.
11.2011	AMARSi Workshop (Compliant Mechanics, Morphological Computation, Human And Robotic Motor Control) Bielefeld University, Germany, 22 – 24 November 2011 TALK: Spatio-temporal Analysis of Human Movements.
09.2011	ECCS'11 - European Conference on Complex Systems Vienna, Austria, September 12-16 2011 • POSTER: Tumbling Dice with Classical Music; • POSTER: Modularity and Informational Aspects of Classical Dance; • POSTER: Dynamics and Evolution of Languages in the Indo-European and Austronesian Language Families.
07.2011	SigmaPhi2011, Interdisciplinary applications of statistical physics. Econophysics and Sociophysics, Europhysics Conference on Statistical Physics

Larnaca, Cyprus, 11-15 July 2011
- POSTER: Tumbling Dice with Classical Music;
- POSTER: Modularity and Informational Aspects of Classical Dance;
- POSTER: Dynamics and Evolution of Languages in the Indo-European and Austronesian Language Families.

Conference: Chaos, Complexity and Transport
Marseille, France, 23-27 May 2011

05.2011
- POSTER: Tumbling Dice with Classical Music;
- POSTER: Modularity and Informational Aspects of Classical Dance;
- POSTER: Dynamics and Evolution of Languages in the Indo-European and Austronesian Language Families.

05.2011
Workshop: Architecture of Human Motor Action: From Kinematics to Cognitive Models Center for Interdisciplinary Research, University of Bielefeld, Germany, May 2 - 3, 2011
TALK: Spatio-temporal Analysis of Human Movements in Classical Dance.

04.2011
Workshop on Evolution of Human Language,
University of Bielefeld, Germany, 28-29 April 2011
INVITED TALK: Levenshtein's distance for measuring lexical evolution rates.

10.2010
International Symposium on Scientific Computing for the Cognitive Science
Heidelberg, Germany 6-8 October 2010
TALK: Spatio-temporal Analysis of Full-body Movement in Classical Dance.

09.2010
The XII-th International Conference: Cognitive Modeling in Linguistics
Dubrovnik, Croatia, September, 6-12 2010
TALK: The phylogeny of Malagasy dialects.

05.2010
III International Dance Summit Berlin
Apollo-Saal der Staatsoper Unter den Linden, Berlin, Germany 8-16 May, 2010
INVITED TALK: DANAMOS: Dance Native Motion System.

11.2009
Symposium: Intelligence and Action II - New Perspectives in Dance & Cognitive Science
Bielefeld University, Germany, November 11-14, 2009
INVITED TALK: Analysis of Dance Movement.

10.2009
Symposium: Evaluating R&D collaboration networks in Europe
Bielefeld University, Germany, October 20 - 23, 2009

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TALK: Mathematical analysis of urban spatial networks.

09.2009
Symposium: Frontiers in Network Science,
Carl von Ossietzky University of Oldenburg, Germany, 28 - 30 September 2009
TALK: Understanding of Networks & databases.

09.2009
Symposium: Complexity, Mathematics and Socio-Economic Problems,
Bielefeld University, Germany, August 31 - September 12, 2009
INVITED TALK: First encounters in urban spatial networks and beyond.

08.2009
XXII Conference of the European Physical Society
Rome, Italy, 25-29 August, 2008
TALK: Future poverty hiding in cities.

07.2008
International Conference in Statistical Physics,
Orthodox Academy of Crete, Kolympari, Greece, 14-18 July 2008
INVITED TALK: Future poverty hiding in cities.

05.2008
VI Seminar on Stochastic Analysis, Random Fields and Applications
Centro Stefano Franscini, Ascona, Switzerland, May 19 - May 23, 2008
TALK: Exterior Algebra Of Random Walks Defined On Undirected Graphs.

05.2008
Sociophysics: Status and Perspectives,
ISI Foundation, Villa Gualino, Torino, Italy, May 26th - 29th, 2008
TALK: Future poverty hiding in cities.

02.2008
Workshop: Evolution and Structure of Complex Systems and Networks,
Bielefeld University, Germany, February 25-29, 2008
INVITED TALK: A way of looking at urban space syntax.

11.2007
Workshop: Theoretical Aspects and Models of Large, Complex and Open Information
Networks ISI Foundation, Villa Gualino, Torino, Italy, November 19th - 21st, 2007
TALK: Markov Processes and Spectral Analysis.

09.2007
Workshop: Stochastic Networks and Internet Technology
Scuola Normale Superiore, Pisa, Italy, 16-21 September 2007
TALK: Random graph models for complex networks.

08.2007
Workshop: Stochastics and Real World Models II
Bielefeld University, Germany, 27-31 August 2007
TALK: City Space Syntax as a Complex Network.

08.2007	Madeira Math Encounters XXXIII Funchal University, Madeira, Portugal, 14-20 August 2007 • INVITED TALK: City Space Syntax as a Complex Network. • INVITED TALK: Spectral Analysis for City Space Syntax.
06.2007	Infinite Particle Systems III. Complex Systems: Theory and Applications Kazimierz Dolny, Poland 24-29 June, 2007 TALK: Analysis of urban complex networks.
09.2005	Technologies Of The 21st Century: Biological, Physical, Informational And Social Aspects Pavlov Institute of Physiology, Saint Petersburg , Russia, September 27-29, 2005 INVITED TALK: A toy model of gene expression regulatory network.
06.2004	Workshop: Chaotic Transport and Complexity in Fluids and Plasmas Carry le Rouet, Marseille, France, June 20-25, 2004 INVITED TALK: Stochastic and Discrete Time Models of Long-Range Turbulent Transport.
10.2003	Plenary Session of the International Workshop GALILEO, University of Bologna, Bologna, Italy, 29 - 31 October 2003 TALK: Stochastic ensembles of discrete time coupled map lattices.
12.2003	XXVII Days of Nonlinear Dynamics Luminy, Marseille, France, 12-17 December 2003 TALK: Self-Organized Critical Model Of Long Range Turbulent Transport In The Scrape-Off-Layer.
08.2003	XIV Congress of Mathematical Physics: Stochastic Analysis (Satelite Conference) Madeira Univeristy, Funchal, Madeira, Portugal, 2-9August 2003 • INVITED TALK: Growing networks and Regulatory networks; • INVITED TALK: Large Regulatory Networks of 'Anonymous' Genes.
06.2003	XXVI Days of Nonlinear Dynamics Luminy, Marseille, France 5-12 June 2003 TALK: Bending Instabilities in Turbulent Flows and Magnetic Hydrodynamics.
06.2003	Workshop: Innovation, Evolution, and Society, University of Bielefeld, Germany, 17-21 June 2003

TALK: World Wide Web as an Example of Autopoietic innovation networks: multi agent models and innovation.

05.2003	Workshop: Systèmes dynamiques, contrôle et réseaux génétiques, La Villa Clythia, Frejus, France, 2-9 May 2003 TALK: Modeling of the self-organized data network growth.
04.2003	Workshop : Rencontre Nice Marseille : UMR CNRS Université de Nice - Sophia Antipolis, Valbonne, France, 14-16 April 2003 TALK: Simulations on a gene regulation network model.
03.2003	XXIV Days of Nonlinear Dynamics Luminy, Marseille, France 1-8 March 2003 TALK: Algorithms Generating Scale Free Random Graphs.
07.2002	TH-2002. International Conference on Theoretical Physics, Paris, France, 22-27 July 2002 TALK: Epidemic Spreading on random graphs.
06.2002	Workshop in Complex Systems: New perspectives from Mathematics, Physics, and Biology, Bielefeld University, Germany, June 2002. TALK: Does the optimal immunization policy exist?
06.2002	1st International Conference in Socio-Physics, Bielefeld University, Germany, June 2002 TALK: A toy society under attack. How to make a panic to subside?
05.2002	Workshop: On the Gibbs path: a random field trip Bielefeld University, Germany, May 2002 TALK: Epidemic Spreading In Scale Free Networks.
08.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, August 2001 TALK: Turbulence Driven by a Deterministic Chaotic Dynamics.
08.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World –The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, August 2001

TALK: Field-theoretic approach to a stochastic magnetohydrodynamics the dimensions of composite operators.

08.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World –The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, August 2001 TALK: Asymptotic Lyapunov Exponents Spectrum for an Extended Chaotic Coupled Map Lattice.
05.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World –The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, July 2001 TALK: Instanton solutions in the problem of wrinkled flame fronts dynamics.
05.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year Workshop "Percolation Phenomena: Basic Techniques and Applications" Center of Interdisciplinary Research (ZIF), Bielefeld, Germany, 7-12 May 2001 TALK: Renormalization Group Approach to the Problem of Flow Through Irregular Packed Beds.
05.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year Workshop "Percolation Phenomena: Basic Techniques and Applications" Center of Interdisciplinary Research (ZIF), Bielefeld, Germany, 7-12 May 2001 TALK: A Phase Transition in the Water Coupled to a Local External Perturbation.
03.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World –The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, March 2001 TALK: Critical Behavior of the Water Coupled to a Local External Perturbation.
03.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, March 2001 TALK: The bending instability in the vorticity transport through a turbulent flow.
02.2001	The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year Center of Interdisciplinary Research, Bielefeld, Germany, February 2001

<table>
<tr><td></td><td>TALK: Implicit Construction of the Probability Invariant Measure for Randomly Coupled Map Networks</td></tr>
<tr><td>01.2001</td><td>The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year
Center of Interdisciplinary Research, Bielefeld, Germany, January 2001
TALK: On the application of the dynamical systems theory to social modeling</td></tr>
<tr><td>01.2001</td><td>The Sciences of Complexity: From Mathematics to Technology to a Sustainable World – The International Collaborative Research Year
Center of Interdisciplinary Research, Bielefeld, Germany, January 2001
TALK: Thermodynamics of Coupled Piece-Wise Linear Chaotic Maps Defined on Random Regular Graphs</td></tr>
<tr><td>11.2000</td><td>International Workshop on Dynamical Neural Networks and Applications
Center of Interdisciplinary Research, Bielefeld, Germany, 20-24 November 2001
TALK: Transitions to Intermittency and Collective Behavior in Randomly Coupled Map Networks</td></tr>
<tr><td>11.2000</td><td>International Workshop on Dynamical Neural Networks and Applications
Center of Interdisciplinary Research, Bielefeld, Germany, 20-24November 2001
TALK: A Toy Model for a System at a Threshold of Stability</td></tr>
<tr><td>10.2000</td><td>2nd Bielefeld Workshop on Quantum Information and Complexity
Center of Interdisciplinary Research, Bielefeld, Germany, 12-14 October 2001
TALK: Does Renormalization Group help very much in Self-Organized Criticality?</td></tr>
<tr><td>10.1997</td><td>Fall Meeting APS/AAPT, Texas section
University of North Texas, Denton TX, October 1997
• TALK: Field-Theory Approach to the Fully Developed Magneto-hydrodynamic turbulence.
• TALK: Functional Approach to Collective Intersubband Excitations in Quantum Wells.</td></tr>
<tr><td>07.1994</td><td>Workshop: Integrable Systems & Quantum groups
Steklov Mathematics Institute, Saint Petersburg, Russia, July 1994
TALK: On the p-adic theory of turbulence</td></tr>
</table>

Seminars, Webinars, and Colloquia

03/2023	The Academic Discussion Club at The Institute of Psychology Russian Academy of Sciences, Moscow INVITED TALK: "What is the difference between statistical data processing and machine learning? An example with decision making using behavioral patterns" https://youtu.be/egMkwvkEG7A
03/2023	Webinar - Promoting Research among Undergraduates SLAAS and the Department of Mathematics, University of Kelaniya conducted a webinar on promoting research among undergraduates with Prof. Dimitri Volchenkov and Dr. Pushpi Paranamana on March 22, 2023. The main objective of this webinar is to promote research culture among undergraduate students with Mathematics/Statistics backgrounds and to encourage them to pursue higher studies. https://youtu.be/yfBbvhkCgLY
09.2021	Texas Tech University, Mathematics & Statistics, Departmental Colloquium: "The Saint Petersburg Paradox. Non-ergodicity, Risk, Predictability, Uncertainty, Navigation, etc." The Academic Discussion Club at The Institute of Psychology Russian Academy of Sciences, Moscow https://youtu.be/sv9JXkLwnjA
07.2021	INVITED TALK: "Survival under Uncertainty" (in Russian) following the book https://www.springer.com/us/book/9783319394190 https://ipran.ru/event/adk5/
03.2021	Random Time Dynamical Systems International On-line Seminar https://www.math.ttu.edu/~dvolchen/seminar.html INVITED TALK: "Discrete Time Markov Chains with Random Transition Times – Fractional Markov Chains"
11.2020	Statistical Physics Seminar University of North Texas, College of Science, Department of Physics INVITED TALK: "Ergodic Walks in Finite Undirected Graphs: Ensembles, Entropic Variables, and Navigability"
2019 - 2020	**28 talks** with the funding sponsor, the AVX Aircraft Company, In the framework of the sponsored project "Multi-Source Data Fusion"
2016-2020	**11 talks** at Texas Tech University: - Applied Mathematics Seminar (Mathematics and Statistics) - Probability, Differential Geometry, and Physics Seminar (Mathematics and Statistics) - Physics and Astronomy Seminar (Physics and Astronomy) - Seminar in Demography (Sociology, Anthropology, and Social Work) - Brown Bag Seminar (Free Market Institute)

- Engineering Seminar (Industrial, Manufacturing & Systems Engineering)
- Computer Science Seminar (Computer Science)

2018-2019	**2 talks** in XVI and XVII Emmy Noether High School Mathematics Days Department of Mathematics and Statistics, Texas Tech University
12.2016	Applied Mathematics Seminar Department of Mathematical Sciences, University of Texas at Dallas INVITED TALK: An introduction to Probability Models of Social Structure and Evolution
11.2016	The Innovative Talents Recruitment Program ("1000 Talent plan of China") Sichuan Province Government, Chengdu, PR China INVITED TALK: Applied Analysis and Risk Prognostication for Complex Environmental, Social and Economic Systems
2001-2016	**19 talks** at the University of Bielefeld, Germany - Geometric Analysis Seminar (Dept of Mathematics) - Physics Seminar (Center for Interdisciplinary Studies) - Physics Seminar (Dept of Physics) - Network Seminar (Dept of Physics) - Lufthansa System Seminar (Bielefeld-Bonn Stochastic Research Center) - The CITEC Club lectures (Center of Cognitive Interaction Technology) - Public Health Seminar (Faculty of Health Sciences) - Neurocognition and Motion (Biomechanik Fakultät für Psychologie und Sportwissenschaft) - Behavioral Seminar (Faculty of Health Sciences) - Cooperation Group: Discrete and Continuous Models in the Theory of Networks (Center for Interdisciplinary Studies)
2012, 2016	**4 talks** at Tohoku University, Sendai, Japan - Applied Mathematics Seminar (Mathematical Institute) - Mathematical System Analysis II Laboratory Graduate School of Information Sciences.
12.2015	Applied Mathematics Seminar Sichuan Jiatong University, Sichuan, Chengdu, China INVITED TALK: An Introduction to the probability models of social evolution.
11.2015	Delft University of Technology

Faculty of Aerospace Engineering,
Delft, Netherlands
INVITED TALK: Markov Chains for data interpretation.

2015	**10 talks** at Winter School "Nonlinear Dynamical Systems and Application" Sichuan University of Science and Engineering, Sichuan, Zigong, China
2014	**2 talks** at Università Ca' Foscari, Venezia, Italy - Living Technology Seminar (European Centre for Living Technology) - Experimental Economics Seminar (Dept. Economics)
06.2014	Applied Systems Analysis Seminar International Institute for Applied Systems Analysis, Laxenburg, Austria INVITED TALK: Real world data analysis and interpretation.
04.2014	Applied Mathematics Seminar Institut de Neurobiologie Alfred Fessard, Unité de Recherche N&D Neurobiologie et Développement CNRS UPR 3294, Gif-sur-Yvette, France INVITED TALK: Path integral distance for the data analysis.
03.2014	Energy and Environment Seminar Chalmers University of Technology, Gothenburg, Sweden INVITED TALK: Random remarks about random walks: 4 Sketches for a discussion.
2012-2015	**5 talks** at the Applied Mathematics Seminar Max-Planck-Institute for Mathematics, Leipzig, Germany
02.2014	Environmental Seminar Nansen International Environmental and Remote Sensing Centre, St. Petersburg, Russia INVITED TALK: Path integral distance for the data analysis.
07.2013	**2 talks** in Theoretical Organization Models Society Strategic Organization Design, University of Southern Denmark, Odense, Denmark

INVITED TALK: Exploration, Exploitation, and Evolution as approached from statistics

03.2013	**4 talks** in The Interdisciplinary College: Wicked Problems, Complexity and Wisdom Günne, Germany
12.2012	Economics Seminar Marche Polytechnic University, Ancona, Italy INVITED TALK: Markov Chain Analysis of Complex Networks and Databases
12.2012	Seminar in Combinatorics, Graph Theory and Applications Polytechnic University of Catalonia, Barcelona, Spain INVITED TALK: Markov Chain Analysis of Complex Networks and Databases
2012	**7 talks** during Summer School of Energy & Power Engineering Xi'an Jiaotong University, Xi'an, China
05.2008	Physics Seminar Universidade de Aveiro, Portugal INVITED TALK: Future poverty hiding in cities
1999,2006-2008	**7 talks** at the Université de Provence, Aix-Marseille II, Marseille, France - Solid State Physics Seminar (Solid State Physics Department) - Applied Mathematics Seminar (Center of Theoretical Physics CNRS UMR 6207) - Theoretical Physics Seminar (Center of Theoretical Physics CNRS UMR 6207) - Seminar of Applied Mathematics in Genomics (Center of Immunology, CNRS UMR 6102)
01.2007	Institute National de Recherche en Informatique et en Automatique (INRIA) Rocquencourt, France INVITED TALK: Spectral Analysis of transportation Networks
12.2006	Institut National de Recherche en Informatique et en Automatique (INRIA) Sophia Antipolis, France INVITED TALK: Markov Chain Methods for Analyzing Complex Transport Networks

06.2005	Science and Technology Seminar School of Informatics, University of Edinburgh, Scotland, UK INVITED TALK: Stochastic models of gene expression networks
06.2001	Applied Mathematics Seminar University of Potsdam, Potsdam, Germany INVITED TALK: Stochastic models of gene expression networks.
1996, 2001	**2 talks** in the A. Fock Research Institute of Physics, Saint Petersburg State University, Russia - Solid State Physics Seminar (Solid State Physics Dept) - Theoretical Physics Seminar (Theoretical Physics Department)
07.1997	**2 talks** at the Summer School of Nonlinear Dynamics Texas A&M Prairie View, Prairie View, TX INVITED TALK: Renormalization Group Approach to Fully Developed Turbulence
12.1996	Jefferson Lab Seminar CEBAF Center, Jefferson Lab, Newport News, VA INVITED TALK: Renormalization Group Approach to Fully Developed Turbulence
12.1996	Nonlinear-Physics Physics Seminar Department of Physics and Technology, Texas A&M University, College Station, TX INVITED TALK: Renormalization Group Approach to Fully Developed Turbulence

CONFERENCES, WORKSHOPS, AND SEMINARS ORGANIZED AND CONVENED

2023	A Member of the Scientific Organizing Committee for the Days of Applied Nonlinearity and Complexity (DANOC) hosted on January 12-14, 2024 by the Aristotle University of Thessaloniki, Greece.

2023	Charing the Scientific Awards Committee for the Days of Applied Nonlinearity and Complexity (DANOC) hosted on January 12-14, 2024 by the Aristotle University of Thessaloniki, Greece.
2022	A Member of the Award Committee, 2022 3rd Online Conference on Nonlinear Science and Complexity, Sep 26-29, 2022, Aristotle University of Thessaloniki, Greece
2022	A member of the Scientific Committee, the International Conference on Mathematical Analysis and Applications in Science and Engineering-ICMAS2SC'22, The School of Engineering of the Polytechnic of Porto, on June 27-29, 2022
2021	Random Time, Memory, and Fractional Dynamics Weekly International Seminar Fridays 09:00 AM Central Time (US and Canada), 3:00 PM Portugal/ UK, 4:00 PM Spain/France/Germany 5:00 PM Ukraine 5:00 PM Moscow 10:00 PM China https://zoom.us/j/97888288693 Program is available at https://www.math.ttu.edu/~dvolchen/seminar.html
10.2021	An Award Committee member, 2021 2nd Online Conference on Nonlinear Science and Complexity May 26-29, 2021, Polytechnic Institute of Porto, Porto, Portugal
11.2020	The Session Chair of Invited Speakers Session @ The 1st Online Conference on Nonlinear Dynamics and Complexity, November 23-25, 2020 (http://ndc.lhscientificpublishing.com/)
11.2020	The Session Chair of Nonlinear Dynamics and Complexity Session (General)@ The 1st Online Conference on Nonlinear Dynamics and Complexity, November 23-25, 2020 (http://ndc.lhscientificpublishing.com/)
11.2020	The Conference Chair @ The 1st Online Conference on Nonlinear Dynamics and Complexity, November 23-25, 2020 (http://ndc.lhscientificpublishing.com/). comprising a major session and 12 individual symposia operating in many time zones; 200+ participants, Central Time Zone, USA
05.2019	Emmy Noether High School Mathematics Days XVII Texas Tech University, Lubbock TX The Member of Program Committee; Invited Speaker.
11.2019	ASME's 2019 International Mechanical Engineering Congress and Exposition

Calvin L. Rampton Salt Palace Convention Center in Salt Lake City, Utah
The Member of Program Committee; Reviewer

11.2018

ASME's 2018 International Mechanical Engineering Congress and Exposition
David L. Lawrence Convention Center Pittsburgh, PA
The Member of Program Committee; Reviewer

08.2018

7th International Conference on Nonlinear Science and Complexity
San Luis Potosí, México
The Member of Program Committee; Invited Speaker.

05.2018

Emmy Noether High School Mathematics Days XVI
Texas Tech University, Lubbock TX
The Member of Program Committee; Invited Speaker.
Poster Session organizer

08.2017

Workshop on Nonlinear Dynamical Systems,
Sichuan University of Science and Engineering,
Zigong, China, 8- 9 May 2017
The Member of Program Committee; Invited Speaker.

04.2017

II International Conference on Complexity, Future Information Systems and Risk
School of Engineering, Polytechnic of Porto, Portugal
The Member of International Program Committee; Reviewer

03.2015

Workshop: Quantum Field Theory methods in neuronal networks dynamics
Zentrum für Interdisziplinäre Forschung, University of Bielefeld, Germany
Funded by the 7th *European Framework Programme* FP7-ICT-2011-8
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

10.2013

Workshop: Mathematics of Complex Systems
Zentrum für Interdisziplinäre Forschung, University of Bielefeld, Germany
Funded by the 7th *European Framework Programme* FP7-ICT-2011-8
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

05.2013

Workshop: Mathematics of Multi-level Anticipatory Complex systems
Max-Planck-Institute for Mathematics, Leipzig, Germany
Funded by the 7th *European Framework Programme* FP7-ICT-2011-8
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

10.2012   Workshop: Spectral Methods for Network Analysis

The joint workshop University of Bielefeld (Germany), Tohoku University (Japan), École polytechnique fédérale de Lausanne (Switzerland)
Zentrum für Interdisziplinäre Forschung, University of Bielefeld, Germany
Convener; The Member of Program Committee; Invited Speaker.

Workshop: We Shape Our Buildings; Thereafter They Shape us
Max-Planck-Institute for Mathematics, Leipzig, Germany
10.2011   Funded by the 7th *European Framework Programme* FP7-ICT-2011-8
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

Workshop: Evolution of Human Language,
Center of Cognitive Interaction Technology, University of Bielefeld, Germany
04.2011   Sponsored by Wissenschaftliches Zentrum infinity³ GmbH, D 33613 Bielefeld
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

Workshop: Architecture of Human Motor Action: From Kinematics to Cognitive Models
Zentrum für Interdisziplinäre Forschung, University of Bielefeld, Germany
05.2011   Sponsored by University of Bielefeld
Grant Recipient; Convener; The Member of Program Committee; Invited Speaker.

Workshop: Evolution and Structure of Complex Systems and Networks
Zentrum für Interdisziplinäre Forschung, University of Bielefeld, Germany
02.2008   Convener; The Member of Program Committee; Invited Speaker.

Workshop: On the Gibbs path: a random field trip dedicated to 100-years of the book J. Gibbs "Principles of Statistical Mechanics"
Bielefeld University, Germany
05.2002   Convener; The Member of Program Committee; Invited Speaker.

LABORATORY DEVELOPMENT AND MAINTENANCE

Data Analysis Laboratory for Multi-level Anticipatory Complex systems
The Center of Cognitive Interaction Technology,
2013 – 2016   University of Bielefeld, Germany
Purchased and maintained equipment: Mangold Intl GmbH Portable Observation
Labs and Software INTERACT
Supported by EC 7. *European Framework Programme* ICT-2011.9.7 FET

Dynamics of Multi-Level Complex Systems (DyM-CS).

FUNDING

External Applications, Accepted, Awarded, and Pending

3. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;
Status: Awarded (A23-0139-001) Prime Account: 210697-E04208-200 (Active)
Title: "Soldier Information Interface for Aviation Fleet Management Tool (FLEETSPACE Integration & Test)"
PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU), Timothy Matis (IMMS TTU)
Amount $339,969.00.
Duration: Aug 2023 – Jan 2024
Candidate percentage of effort: 5.22%   Allocation of Credit: 17%

4. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;
Status: Awarded (A23-0086-001); Account Number: 210682-E04208-200;
Sponsor Award No: W911W6-17-3-0002 PO 435 CO000
Title: "Data Refinement and Reduction for Aviation Sustainment (DRRAS Phase II)"
PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU), Dongping Du (IMMS TTU)
Amount $524,971.00.
Duration: Aug 2022 – Jan 2024
Candidate percentage of effort: 30%   Allocation of Credit: 25%

1. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;
Status: Awarded (A21-0283-001)); Account Number: 210577-E04208-200
Sponsor Award: 412
Title: Solider Information Interface for Aviation Fleet Management Tool (FLEETSPACE)
PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU)
Amount $308,178.00.

Duration: Aug 2021 – Jul 2022

Candidate percentage of effort: 25%

2. Prime Sponsor: Department of Defense Army; Sponsor: AVX Aircraft Company;

Status: Awarded (A20-0218-001); Account Number: 210499-E04214-200

Title: Maintenance Remaining Useful Life Validator Application for Rotorcraft-Automated

Component Tracking

PI: Tommy Dang (CS TTU), Co-PIs: Dimitri Volchenkov, Dy Le (IMMS TTU)

Amount $300,000.00.

Duration: June 2020 – Aug 2021

Candidate percentage of effort: 10%

1. Sponsor: Department of Defense Army

Status: Awarded (A20-0080-001); Account Number: 210469-E04208-200

Title: Multi-Source Data Fusion

PI: Dimitri Volchenkov, Co-PIs: Tommy Dang (CS TTU), Dy Le (IMMS TTU)

Amount $300,003.00.

Duration: June 2019 – Oct 2020

Candidate percentage of effort: 45%

Pending

1. Sponsor: Texas A&M University
    Prime Funding Agency: DOD - Office of Naval Research
    Title: "Exploiting Local Complexity to Secure Global Stability and Synchronization" - Join Project between TAMU and TTU
    PI(s): Steve Suh (TAMU), Dimitri Volchenkov (TTU)
    Proposed Total/TTU Amount: $1.78M / $636,812 (TTU)
    Proposed Begin-End Dates: 05/01/2024 - 04/30/2027

2. Sponsor: National Science Foundation
    Status: Submitted to sponsor - Proposal: 23-0476
    Title: "Doctoral Dissertation Research: Developing Campus walkability index with the application of Geo technology and space syntax theory and urban anthropology - Gisou Salkhi (PhD Graduate Student) "

PI(s): **Dimitri Volchenkov**, Gisou Salkhi
Proposed Total Amount: $37,431.00
Proposed Begin-End Dates: 9/01/2023 - 8/31/2024

Internal Applications

  None.

External Applications Declined

1.   Sponsor: United States Department of Homeland Security

Status: Not Funded

Title: Forecasting Domestic Terrorism: Using Hate Crime Incidents Clusters to Identify

Potential Domestic Terrorism Organizations Activity

PI: Ori Swed (SASW TTU); Co-PIs: Dimitri Volchenkov, Tommy Dang (CS TTU)

Amount $411,758.00.

Duration: Oct 2020 – Sep 2022

Candidate percentage of effort: 45%

2.   Sponsor: DHHS, National Institutes of Health

Status: Not Funded

Title: Data Science to Uncover Deep Structures and Sustainable Health Solutions

PI: Stephen Ekwaro-Osire (ME TTU); Co-PIs: Dimitri Volchenkov, Victor Sheng (CS TTU),

Queen, Courtney M (TTUHSC), Gittner, Lisa (TTUHSC)

Amount $1,749,322.00.

Duration: May 2021 – Apr 2022

Candidate percentage of effort: 15%

3.   Sponsor: NSF

Status: Not Funded

Title: SenSE: Early Diagnostics of ADHD among Children with Multimodal Sensors

PI: Victor Sheng (CS TTU); Co-PIs: Dimitri Volchenkov, Changzhi Li (Electrical and Computer Engr)

Amount $749,999.00.

Duration: Dec 2020 – Nov 2023

Candidate percentage of effort: 20%

4. Sponsor: NSF

Status: Not Funded

Title: ATD: Deep Learning for Predicting Political Coercive Violence Around Election Periods Across Africa

PI: Dimitri Volchenkov, Co-PIs: Ori Swed (SASW TTU), Tommy Dang (CS TTU)

Amount $749,999.00.

Duration: Oct 2020 – Sep 2023

Candidate percentage of effort: 34%

5. Sponsor: NSF

Status: Not Funded

Title: AI Institute: Planning: A Research and Practice Hub of Self-Aware Data

PI: Victor Sheng (CS TTU); Co-PIs: Dimitri Volchenkov, Fang Jin (CS TTU), Changzhi Li (CS TTU), Akbar Siami Namin (CS TTU), Shuo Yu (Dept: Business, Dean Ofc), David Gutman (Industrial Engineering), Delong Zuo (Civil, Env and Construc Engr), Chris Chu (Public Relations), David Weindorf (VP Research)

Amount $499,770.00.

Duration: Aug 2020 – July 2022

Candidate percentage of effort: 34%

6. Sponsor: NSF

Status: Not Funded

Title: HDR TRIPODS: Bidirectional Data Collection and Data Science

PI: Ranadip Pal (Electrical and Computer Engr); Co-PIs: Dimitri Volchenkov, Souparno Ghosh (Mathematics and Statistics), Changzhi Li (Electrical and Computer Engr), Ariful Islam (CS

TTU), Yong Chen (CS TTU), Delong Zuo (Civil, Env and Construc Engr), Barb Moskal (CISER)

Amount $1,499,999.00.

Duration: Jan 2020 – Dec 2022

Candidate percentage of effort: 15%

7. Sponsor: Texas Department of Transportation

Status: Old

Title: Exploring the Use of Artificial Intelligence to Leverage TxDOT Data for Enhanced Corridor Management and Operations

PI: Ali Nejat (Civil, Env and Construc Engr); Co-PIs: Dimitri Volchenkov, Hongchao Liu (Civil, Env and Construc Engr), Tommy Dang (CS TTU)

Amount $102,348.00.

Duration: May 2019 – May 2020

Candidate percentage of effort: 20%

8. Sponsor: NSF

Status: Old

Title: ADT: From Hate Speech to Hate Crime: Phase Space Embedding and Multiscale Geometric Data Fusion

PI: Dimitri Volchenkov, Co-PIs: Ori Swed (SASW TTU), Tommy Dang (CS TTU)

Amount $293,871.00.

Duration: Oct 2019 – Sep 2021

Candidate percentage of effort: 34%

9. Sponsor: Sentient Science, DOD - Defense Advanced Research Projects Agency

Status: Old

Title: Physics of Artificial Intelligence

PI: Dy Le (IMMS TTU), Co-PI: Dimitri Volchenkov

Amount $408,896.00.

Duration: Sep 2018 – Mar 2020

Candidate percentage of effort: 50%

10. Sponsor: NSF

Status: Not funded

Title: BIGDATA: IA: Aviation Big Data Platform for Human-Machine Longevity Sustainment (HuMaLoS)

PI: Dimitri Volchenkov, Co-PI: Dy Le (IMMS TTU)

Amount $1,908,269.00.

Duration: Oct 2018 – Sep 2022

Candidate percentage of effort: 50%

11. Sponsor: NSF

Status: Not funded

Title: ATD: Accelerating Migration Flow and Related Threats Evaluated by Dynamic Pricing Theory

PI: Dimitri Volchenkov, Co-PI: Akif Ibraguimov (Mathematics and Statistics), Svetlozar Rachev (Mathematics and Statistics), Eugenio Aulisa (Mathematics and Statistics), Cristina Bradatan (Sociology, Anthro and Social W), Yiyuan Tang (Psychological Sciences), Fang Jin (Computer Science)

Amount $265,071.00.

Duration: Oct 2018 – Sep 2019

Candidate percentage of effort: 40%

IV.   SERVICE

Outreach and Engagement

03/22/2023	University of Kelaniya Sri Lanka Webinar on Promoting Research among Undergraduates, 70 Participants, SLAAS and the Department of Mathematics, University of Kelaniya conducted a webinar on promoting research among undergraduates with Prof. Dimitri Volchenkov and Dr. Pushpi Paranamana on March 22, 2023. The main objective of this webinar is to promote research culture among undergraduate students

with Mathematics/Statistics backgrounds and to encourage them to pursue higher studies. Organized by Prof. Thilini Mahanama, Sujeewa de Silva

https://youtu.be/yFBbvhkCgLY

Departmental Service

09/2023	Dept Math & Stats, Texas Tech University AI and ML Active Group Faculty Meeting Topic: "AI Machine Learning Curriculum in Math and Stats" Participants: Toda, Magdalena; Thompson, Travis; Huang, Juntao; Howle, Victoria; Long, Katharine; Juan, Lourdes, Monico, Chris; Volchenkov, Dimitri; Guo, Weimath; Tomas, Ignacio; Trindade, Alex
Spring 2022 – Present	Departmental grant proposals reviewer and authorizer
Fall 2020 – Present	Faculty Resource Committee Member
January 2022	Evaluation of Dr. Pouliasis', 3rd year review committee member
Fall 2018-Spring 2019	Faculty Hiring Committee Member
10.2018	VTA Evaluation of Mr. Kara Erdi (Math 1331)
10.2018	VTA Evaluation of Mr. Dylan Rudy (Math 3310)
10.2017	VTA Evaluation of Mr. Mohammad Mihrab Uddin Chowdhury (Math 1331)
10.2017	VTA Evaluation of Mrs. Ma, ZhuanZhuan (Math 1320-032)
Fall 2018	Course Coordination MATH 1331: Introductory Mathematical Analysis II (5 sections); Common Final exam preparation TA/GPTI's Supervised: *Xu, Dong* (R11416884); *Alhassan, Ameen Abdulalmohsin H* (R11317913); *Zhai, Qiannan* (R11457409); *Williams, Margaret* (R00518708); *Hu, Yuan* (R11474135)
Spring 2019	Course Coordination MATH 1331: Introductory Mathematical Analysis II (14 sections); Common Final exam preparation TA/GPTI's Supervised: *Xu, Dong* (R11416884); *Imiya Mohottige, Lakmini Nadeesha Jayaweera* (R11464594); *Zhai, Qiannan* (R11457409); *Wang, Jennifer D* (R10401587);

Gonapeenuwala Vithana, Rohana Kumara (R11505008); *Pangeni, Sangam* (R11501205); *Teng, Ying* (R11439933); *Dassanayake, Isuru Dilan* (R11477224); *Mukta, Farjana Tasnim* (R11572031); *Long, Cole* (R11537176); *Ema, Jannatul Ferdous* (R11565029); *Alhassan, Ameen Abdulalmohsin H* (R11317913); *Williams, Margaret* (R00518708); *Hu, Yuan* (R11474135)

Fall 2019	Course Coordination MATH 1331: Introductory Mathematical Analysis II (7 sections); Common Final exam preparation TA/GPTI's Supervised: *Wang, Jennifer D* (R10401587); *Nguyen, Phuong* (R11645839); *Kesawan, Ramesh Aravind* (R11478881); *Pinto Jayawardena, Hettiarachchige Sithma* (R11593321); *Ratnayake, Kusal* (R11565486); *Williams, Margaret* (R00518708)
Spring 2020	Course Coordination MATH 1331: Introductory Mathematical Analysis II (15 sections); Common Final exam preparation TA/GPTI's Supervised (12): *Mukta, Farjana Tasnim; Balasuriya, Balasuriya Mudiyanselage; Devage Dona, Dulanjalee Long, Cole; Pinto Jayawardena; Hettiarachchige Sithma Dao; Mai Huynh Phuong Ratnayake; Kusal Gonapeenuwala Vithana; Rohana Kumara; Williams, Margaret; Perera, Dewamullage Chathuri; Mills, Casey; Jayarathne, Diyunugalage; Gajith Neranjaka*
Summer 2020	Course Coordination MATH 1331: Introductory Mathematical Analysis II (6 sections); Common Final exam preparation TA/GPTI's Supervised (5): *Mills, Casey J; Almeida, Shamonvenishiya; Perera, Nuwanthika; Vithana, Rohana Kumara; Chen, Fan*
Spring 2021	Course Coordination MATH 1331: Introductory Mathematical Analysis II (16 sections); Common Final exam preparation TA/GPTI's Supervised (12): *Mills, Casey; Greywall, Kyle; Liang, Chuan; Devage Dona, Dulanjalee; Rejuan, Rifat; Balasuriya, Balasuriya Mudiyanselage; Erwin, Brock; Mudunkotuwa Appuhamilage, Geethanjalee; Francese, James; Rathnayake, Kusal; Pinto Jayawardena, Hettiarachchige Sithma; Chakroborty, Sajal*

College Service

Member of the Mentor Network Participants Group   Spring 2022 - Present
Outreach and Engagement Mentorship Network
Texas Tech University

10/2023　LPMD affiliates meeting on LPMD Doctoral Degree Curriculum: Core Courses & Tracks, at the Texas Tech University Graduate School, Interdisciplinary Studies Mon 10/23/2023 3:30 PM - 4:30 PM Stone-Lawrence, Susan; Nejat Ali, Ghebrab, Tewodros; Cricchio, Anthony; Mostafavi, Sina; Haq, Saif; Li, Wei; Greenhalgh-Spencer, Heather; Park, Kuhn; Qiu, Lingyi; Monsur, Muntazar; Salazar-Bravo, J; Perry, Gad; Gaines, Kristi; Bernard, Eric; Sikes, Carmen; Portillo, Carlos; Ellis, Clifton; Turturo, David; Zugay, Brian; Mehan, Asma; Volchenkov, Dimitri

Graduate Dean's Representative

Zulfiqar Ali Khan, M.S   October 2022
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Novel Vulnerability Detection Techniques for Ethereum-based Smart Contracts"
Dr. Akbar Siami-Namin (Chair) Dr. Yu Zhuang, Dr. Susan A. Mengel, Dr. Tommy Dang, Dr. Dimitri Volchenkov (Dean's Representative), Dr. Mark A. Sheridan (Dean of the Graduate School)

Huyen Nguyen, Ph.D. Candidate in Computer Science,   June 2023
Department of Electrical and Computer Engineering, Texas Tech University
Dissertation Title: "Interactive Visualization and Event Detection in Time-series Data"
Committee Members: Dr. Tommy Dang (Chair), Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Dimitri Volchenkov (Dean's Representative)

Andrea Arriet, M.S, B.S, Ph.D. Candidate in Computer Science,   June 2023
Department of Electrical and Computer Engineering, Texas Tech University
Dissertation Title: "Water Management Policies for the Energy Sector for North America"
Committee Members: Dr. Timothy Matis (Chair), Dr. Felipe Feijoo, Dr. Dongping Du, Dr. Hamidreza Validi, Dr. Dimitri Volchenkov (Dean's Representative)

Luis Felipe Gutiérrez, M.S, B.S, Ph.D. Candidate in Computer Science   March 2023
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Enabling Context-Aware Natural Language Processing: From Dense Vector Representations to Contextual Features"
Committee Members: Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morsh, Dr. Dimitri Volchenkov (Dean's Representative)

Faranak Abri, M.S, B.S   June 2022
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "Content Analysis and Modeling Interactions in Social Engineering Attacks"
Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morshed, Dr. Sumaiya Shomaji, Dr. Dimitri Volchenkov (Dean's Representative), Dr. Mark A. Sheridan (Dean of the Graduate School)

Datta, Prerit   June 2021
Department of Electrical and Computer Engineering, TTU
Dissertation Title: "XXXX"
Dr. Akbar Siami-Namin (Chair) Dr. Keith S. Jones, Dr. Susan Mengel, Dr. Bashir I. Morshed, Dr. Sumaiya Shomaji, Dr. Dimitri Volchenkov (Dean's Representative), Dr. Mark A. Sheridan (Dean of the Graduate School)

Daniel Fernando Rodriguez   February 2022
Electrical Engineering, TTU
Dissertation Title: "Low-Cost Far-field and Near-field Radio Frequency Sensors for Human Sensing and Liquid Characterization"
Committee members: Changzhi Li (chair), Stephen Bayne, Mahammad Saed, Dimitri Volchenkov (Dean's Representative)

Binod Rajbhandari   Oct 2020
Department of Physics and Astronomy, TTU
Dissertation Title: First Search for Gravitational Waves from R-modes of the Crab Pulsar
Committee Members: Benjamin Owen (chair), Joseph D. Romano, Dimitri Volchenkov, Alessandra Corsi, David Ian Jones, Mark Sheridan

Raziur Rahman   June 2019
Department of Electrical and Computer Engineering, TTU
Dissertation Title: Anti-cancer Drug Sensitivity Predictive Modeling for Improvement of Precision Medicine using Machine Learning Algorithms
Committee Members: Ranadip Pal (chair), Dimitri Volchenkov (Dean's Representative), Sunanda Mitra, Souparno Ghosh

Mahdi Ramezanian   Nov 2019
Department of Petroleum Engineering, TTU
Dissertation Title: An experimental study to investigate the effect of temperature and pressure on a modified design of gravel packing with oil swelling rubber particles and unconventional rock properties.
Committee Members: Heinze Lloyd (chair), Emadibaladehi H., Sheldon Gorell, Dimitri Volchenkov (Dean's Representative)

Academic Recommendation Letters

01/2024	Florida International University Department of Math and Statistical Sciences Position: Open Rank Teaching Professor Applicant: G M Fahad Bin Mostafa
01/2024	University of Texas Rio Grande Valley (UTRGV) The School of Mathematical and Statistical Sciences (SMSS) Position: Assistant Professor in the College of Sciences/School of Mathematical and Statistical Sciences, College of Sciences / Mathematical and Statistical Sciences Applicant: G M Fahad Bin Mostafa
01/2024	Clemson University Clemson Center for Public Health Modeling and Response Department of Public Health Sciences College of Behavioral Social and Health Sciences A phone discussion with Dr Lior Rennert on the candidate Candidate: G M Fahad Bin Mostafa
01/2024	The Texas Tech University TTU Continuing Students Scholarship 2024-25 Applicant: Elizabeth Payton
12/2023	Illinois Institute of Technology, Department of Applied Mathematics, Position: Professor of Mathematics, Tenure Applicant: Dr Vitali Vougalter
12/2023	The University of Alabama at Birmingham, School of Public Health Position: Open Rank/Tenure Faculty Position - Biostatistics

Applicant: G M Fahad Bin Mostafa

12/2023	The Ohio State University, Position: Visiting Assistant Professor of Biostatistics Applicant: G M Fahad Bin Mostafa
12/2023	The Texas Tech University Summer Thesis/Dissertation Research Award Scholarship for 2024 Applicant: Dona, Charu Sameera Devindi
12/2023	Stony Brook University Graduate School, Applied Math & Stat PhD program, Applicant: Akash Deep, Interdisciplinary Studies MSc
11/2023	The University of Texas at Dallas Department of Mathematical Sciences within the School of Natural Sciences and Mathematics (NSM) Position: Assistant Professor - Mathematics, Statistics, Data Science Applicant: Dona, Charu Sameera Devindi
11/2023	The College of William & Mary Department of Mathematics Assistant Teaching Professor of Mathematics Applicant: Indika Gihan Gunawardana Ilandari Dewage
11/2023	Murray State University Department of Statistics Position: Assistant Professor, Statistics Applicant: Dona, Charu Sameera Devindi
11/2023	University of Wisconsin-Madison

College of Letters & Science, Department of Statistics

Position: Assistant Professor, Associate Professor, Professor in Statistics

Applicant: Dona, Charu Sameera Devindi

The University of North Carolina at Chapel Hill

Department of Statistics,

11/2023   Position: Post Doctoral Scholar

Applicant: G M Fahad Bin Mostafa

Ohio Northern University

Department of Mathematics,

11/2023   Position: Assistant Professor of Mathematics, Tenure Track

Applicant: Dr Vitali Vougalter

Stockton University

Department of Mathematics,

11/2023   Position: Assistant Professor of Mathematics, Tenure Track

Applicant: Dr Vitali Vougalter

University Wisconsin Madison,

Department of International Studies/Geography

11/2023   Position: Assistant Professor of Geography, Tenure Track

Applicant: Gisou Salkhi Khasraghi

Virginia Tech,

Department of Mathematics,

11/2023   Position: Assistant Professor in Mathematical Physics, Tenure Track

Applicant: Dr Vitali Vougalter

University of California, Riverside

10/2023

College of Natural & Agricultural Sciences,

Department of Statistics,

Position: Assistant Professor of Teaching in Statistics

Applicant: G M Fahad Bin Mostafa

10/2023

MathJobs.Org

Assistant Professor of Statistics

Applicant: G M Fahad Bin Mostafa

10/2023

MathJobs.Org

Assistant Professor of Statistics

Applicant: Indika Gihan Gunawardana Ilandari Dewage

10/2023

Texas Tech University

Graduate School, Ph D Program in Mathematics

Applicant: Ms Akash Deep

10/2023

University of Missouri-Kansas City

Graduate School, Ph D Program in Interdisciplinary Studies

Applicant: Ms Akash Deep

10/2023

Princeton University

Graduate School, Ph D Program in Mathematics

Applicant: Ms Akash Deep

10/2023

University of California, San Diego

MATHEMATICS - Physical Sciences department

Assoc/ Full Professor of Mathematics

Applicant: Dr Vitali Vougalter

10/2023

University of Colorado, Boulder

Mathematics department

Assistant Professor of Mathematics

Applicant: Dr Vitali Vougalter

University of California, Irvine

Mathematics department

10/2023   Assistant Professor of Mathematics - Open Areas

Applicant: Dr Vitali Vougalter

National Science Foundation

Graduate Research Fellowship Program (GRFP)

10/2023   Project: "Optimizing Machine Learning Methods and Artificial Intelligence in Survival Prediction and Treatment Selection of Lung Cancer"

Applicant: Clayton C. Paget

School of Earth, Society & Environment, Urbana, Illinois

Department of Geography & GIS,

10/2023   Position: Assistant Professor

Applicant: Gisou Khasraghi

AcademicJobsOnline.Org

Academic Recommendation Letter

10/2023   On behalf of MS Fahad Mostafa, Texas Tech University

Virginia Tech

Department of Mathematics

10/2023   Position: Assistant Professor of Mathematics

Applicant: Dr Vitali Vougalter

United States Citizenship and Immigration Services,

09/2023   An academic support letter for the EB1-B Application,

Outstanding Professor or Researcher,

Applicant: Dr. Zhuanzhuan Ma

09/2023	MathJobs.org Academic Recommendation Letter On behalf of MS Fahad Mostafa, Texas Tech University
09/2023	MathJobs.org Academic Recommendation Letter On behalf of Dr Vitali Vougalter, University of Toronto
09/2023	Texas Tech University Charles S. Peirce's Interdisciplinary Graduate Fellowship Program Applicant: Dona, Charu Sameera Devindi
07/2023	Center for Biologics Evaluation and Research, US Food and Drug Administration, Applicant: Dr Yawei Cheng Position: Mathematical statistician
06.2023	Texas Tech University The Geography (MS) Program for the Fall 2023 Applicant: Gisou Salkhi Khasraghi
04.2023	The University of Texas at Dallas The Department of Computer Science in the Erik Jonsson School of Engineering and Computer Science Position: Assistant Professor Applicant: Shuvalaxmi Dass
04/2023	United States Citizenship and Immigration Services,

A Letter of Endorsement

EB1A Petition for Alien Workers as a Person of Extraordinary Ability in the sciences, EB-1(a)

Applicant: Dr. Yevgeny Redeonychev.

United States Citizenship and Immigration Services,

A Letter of Support

EB1B Green Card Application

04/2023   Applicant: Dr. Zhuanzhuan Ma, a tenure-track Assistant Professor of Statistics at the School of Mathematical and Statistical Sciences, University of Texas Rio Grande Valley (UTRGV)

Texas Tech University

Position: The Paul Whitfield Horn Fellowship for Women 2023 -2024

03/2023   Applicant: Ms Seneviratne, Himali

Academic Recommendation Letter

The Moody School of Graduate and Advanced Studies - SMU, Graduate School

Position: MSCS Candidate

02/2023   Applicant: Anna Solodukhina

Academic Recommendation Letter

The City College of New York, Structural Engineering

Position: Full Professor

02/2023   Applicant: Hansong Tang

Academic Promotion Recommendation Letter

University of Texas at Dallas, Graduate School

Position: Computer Science – MSCS Candidate

02/2023   Applicant: Anna Solodukhina

Academic Recommendation Letter

University of Texas at Dallas, Graduate School

Position: Statistics - MS Candidate

02/2023   Applicant: Anna Solodukhina

Academic Recommendation Letter

Texas Tech University

Position: Helen DeVitt Jones Excellence in Graduate Teaching Awards 2023

02/2023   Applicant: Syed Ehsan Ar Rafi

Academic Nomination Letter

Duke University, Graduate School

Position: PhD Candidate

02/2023   Applicant: Anna Solodukhina

Academic Recommendation Letter

Brandeis University, Graduate School of Arts and Sciences

Position: PhD Candidate

02/2023   Applicant: Anna Solodukhina

Academic Recommendation Letter

Cleveland State University, Electrical Engineering and Computer Science

Position: Assistant Professor in Computer Science

02/2023   Applicant: Shuvalaxmi Dass

Academic Recommendation Letter

02/2023   University of Texas at Dallas

Master of Science in Computer Science

Applicant: Anna Solodukhina

Academic Recommendation Letter

02/2023	University of Texas at Dallas
	Master of Science in Statistics
	Applicant: Anna Solodukhina
	Academic Recommendation Letter
02/2023	Duke University Graduate School
	Graduate Programs in Electrical and Computer Engineering
	Applicant: Anna Solodukhina
	Academic Recommendation Letter
02/2023	Texas Tech University
	Helen DeVitt Jones Excellence in Graduate Teaching Awards Committee
	Nominee: Rafi, Syed Ehsan Ar, Grad Part-Time InstructorMathematics and Statistics
	Academic Nomination Letter
02/2023	Duke University Graduate School
	Graduate Programs in Economics and Computation
	Applicant: Anna Solodukhina
	Academic Recommendation Letter
02/2023	Graduate School of Arts and Sciences at Brandeis University
	Graduate Programs in Computer Science
	Applicant: Anna Solodukhina
	Academic Recommendation Letter
01/2023	The East Bay campus of California State University system
	Position: Assistant or Associate Professor of Computer Science position
	Applicant: Shuvalaxmi Dass
	Academic Recommendation Letter
01/2023	University California, Santa Barbara, Computer Science Department

Position: Computer Science Open Level Tenure-Track or Tenured Position

Applicant: Shuvalaxmi Dass

Academic Recommendation Letter

Johns Hopkins University, Mathematics Department

Position: Senior Lecturer Mathematics

01/2023   Applicant: Karunaratne, Dulanjalee Damitha, PhD Candidate Mathematics & Statistics, TTU

Niagara University, Mathematics Department

Position: Assistant Professor Mathematics, Tenure-Track

01/2023   Applicant: Karunaratne, Dulanjalee Damitha, PhD Candidate Mathematics & Statistics, TTU

MathJobs.Org

A general recommendation Letter

01/2023   Applicant: Karunaratne, Dulanjalee Damitha, PhD Candidate Mathematics & Statistics, TTU

Texas Tech University

Fall 2023 - Business Administration - Finance, PhD Program

12/2022   Applicant: Chuan Liang, MS Mathematics & Statistics

University of Southern California

Position: Open Rank -Assistant and Associate/Full Professor of Electrical and

11/2022   Computer Engineering

Applicant: Shuvalaxmi Dass

University of Texas at Arlington

11/2022   Position: Open Rank -Assistant and Associate/Full Professor-Computer Science and Engineering

Applicant: Shuvalaxmi Dass

10/2022 The University of Texas at Dallas.
Mechanical Engineering Department,
Assistant Professor position
Applicant: Dr. Siyu Guo

10/2022 Harbin Institute of Technology, China.
Mechanical Engineering Department,
Assistant Professor position
Applicant: Dr. Siyu Guo

10/2022 Microsoft Corporation,
Cambridge, MA
Research Intern Position in Machine Learning, Statistics, and AutoML
Applicant: Hettiarachchige Sithma Pinto Jayawardena

10/2022 USCIS
A recommendation/ Evaluation letter for the O-1 Visa: Individuals with Extraordinary Ability or Achievement
Applicant: Dr. Anton Kozhukhov

10/2022 Interfolio.com
A recommendation/ Evaluation letter for the positions in Social and Political Sciences
Applicant: Dr. Ori Swed (SASW TTU)

09.2022 Texas Tech University Office of International Affairs
Study Abroad Competitive Scholarship Program Spring 2023
Applicant: Indika Gihan Gunawardana Ilandari Dewage

09.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Spring 2023

Applicant: Dona, Charu Sameera Devindi

09.2022   Texas Tech University

Position of the Associate Vice President for Innovation and Entrepreneurship

Applicant: Prof. Dr. Vakhtang Putkaradze, Centennial Professor at the Department of Mathematical and Statistical Sciences, the University of Alberta, CA and the Vice President, Transformation, Science and Technology at ATCO (https://www.atco.com/en-ca.html)

09.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Spring 2023

Applicant: Himali Sakunthala Kalanchige

05.2022   Texas Tech University

Texas Tech University Accelerated 150 hour BS/MS Program

Applicant: Johnathon St. Andre

04/2022   School of Aerospace Engineering of Xi'an Jiaotong University, China.

The "Young and Excellent Talents" Program

Assistant Professor position

Applicant: Dr. Siyu Guo

04.2022   Johns Hopkins Biostatistics Center (JHBC)

Quantitative Methods Core, Institute for Clinical and Translational Research

Department of Biostatistics Johns Hopkins Bloomberg School of Public Health

A research associate non-tenure track faculty position in the Biostatistics Center

Applicant: Ahmed Sabit

04.2022   Texas Tech University

               College of Art and Science

               College of Art and Science Staff Award

               A Letter of Support on behalf of Ms. Betty Ann Thomas

03.2022   Texas Tech University

               Department of Mathematics and Statistics

               The SIAM graduate scholarship 2022-2023

               Applicant: Kusal Rathnayake

03.2022   Texas Tech University

               Department of Mathematics and Statistics

               The SIAM graduate scholarship 2022-2023

               Applicant: Hettiarachchige Sithma Pinto Jayawardena

03.2022   Texas Tech University

               2022 Paul Whitfield Horn Fellowship for women

               Applicant: Himali Sakunthala Kalanchige

02.2022   Texas Tech University

               Texas Tech University Accelerated 150 hour BS/MS Program

               Applicant: Anna Solodukhina

02.2022   Texas Tech University

               Office of International Affairs

               Buena Vista Study Abroad Scholarship 2022

               Applicant: Elisabeth Grace Larvin

02.2022   Academic Programs International (API)

               API Abroad Program

Internship in Madrid, Spain

Applicant: Joseph Luis Salas Rivas

02.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Summer 2022

Applicant: Elisabeth Grace Larvin

02.2022   The Franklin Institute

The Franklin Institute Awards

2023 Bower Award and Prize for Achievement in Science

A Letter of Support on behalf of Professor Dr. Albert C. J. Luo

02.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Fall 2022

Applicant: Himali Sakunthala Kalanchige

02.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Summer 2022

Applicant: Himali Sakunthala Kalanchige

02.2022   Bowling Green State University

Firelands College

Natural and Social Sciences Department

Assistant Teaching Professor Mathematics of the Pathway Program

Applicant: Applicant: Sachith Dassanayaka

02.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Fall 2022

Applicant: Hettiarachchige Sithma Pinto Jayawardena

02.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Fall 2022

Applicant: Kusal Rathnayake

01.2022   Texas Tech University

Office of International Affairs

Study Abroad Competitive Scholarship application, Summer 2022

Applicant: Kusal Rathnayake

01.2022   Texas Tech University

Department of Mathematics and Statistics

Peer Review Evaluation for the Years 2019-2021

Applicant: Dr. Stamatis Pouliasis

01.2022   University of Kelaniya Sri Lanka,

Senior Lecturer Gr. II Position

Applicant: Dr. (Ms.) K.R.T.V. Mahanama

01.2022   Goucher College

College of Arts and Sciences

Assistant Professor, Integrative Data Analytics

Applicant: Sachith Dassanayaka

01.2022   Oberlin College & Conservatory

College of Arts and Sciences

Visiting Assistant Professor in Data Science (2 year appointment)

Applicant: Sachith Dassanayaka

01.2022   State University of New York at New Paltz

               Department of Mathematics

               Assistant Professor of Mathematics

               Applicant: Sachith Dassanayaka

01.2022   University of Northern Colorado

               Department: Applied Statistics & Research Methods

               Assistant/Associate Professor of Statistics, Tenure Track

               Applicant: Sachith Dassanayaka

01.2022   Whitman College

               Assistant Professor of Mathematics & Statistics

               Mathematics and Statistics Department

               Applicant: Sachith Dassanayaka

01.2022   Texas Tech University

               Office of International Affairs

               International Study Abroad Competitive Scholarship (SACS) application

               Applicant: Charu Sameera Devindi Rajapaksha Pathiranage Dona

01.2022   SkillSurvey Reference™ system

               Pre-Hire 360® workflow

               Applicant: Sachith Dassanayaka

01.2022   Dickinson College

               The Department of Mathematics and Computer Science

               Visiting Lecturer in Mathematics

               Applicant: Sachith Dassanayaka

01.2022   Oregon State University

The Department of Statistics

Tenure-track Assistant Professor

Applicant: Sachith Dassanayaka

01.2022   The University of Texas Rio Grande Valley

Mathematics and Statistics Department

Assistant Professor of Statistics

Applicant: Zhuanzhuan Ma

01.2022   SUNY Oswego

Mathematics and Statistics Department

Assistant Professor of Mathematics

Applicant: Sachith Dassanayaka

01.2022   Ohio Northern University,

Mathematics and Statistics Department

Assistant Professor of Mathematics (non-tenure track)

Applicant: Sachith Dassanayaka

01.2022   Southern Illinois University Edwardsville,

Mathematics and Statistics Department

Assistant Professor (Mathematics and Statistics)

Applicant: Sachith Dassanayaka

01.2022   Graduate Women in Science (GWIS)

National Fellowship Program

Applicant: Yunting Gao

01.2022   Southern Illinois University

Mathematics and Statistical Sciences

Assistant/Associate Professor - Statistics

Applicant: Sachith Dassanayaka

01.2022   Weber State University
             Department of Mathematics
             Assistant Professor - Mathematics
             Applicant: Sachith Dassanayaka

12.2021   University of California, San Diego
             Halicioglu Data Science Inst
             Assistant Professor - Data Systems and Infrastructure (HDSI)
             Applicant: Sachith Dassanayaka

12.2021   Rutgers University -New Brunswick
             Department of Statistics, School of Arts & Sciences
             Full Time non-Tenure-Track Faculty Position - Mathematics
             Applicant: Sachith Dassanayaka

12.2021   University of Georgia
             Assistant Professor in Infectious Disease Modeling and Forecasting position
             Applicant: Sachith Dassanayaka

12.2021   AcademicJobsOnline.Org
             A recommendation letter for the positions in Mathematics and Data Analysis
             Applicant: Sachith Dassanayaka

12.2021   University of North Carolina at Chapel Hill,
             Department of Statistics & Operations Research
             Teaching Assistant Professor
             Applicant: Sachith Dassanayaka

12.2021   Winston-Salem State University

Tenure-Track Assistant/Associate Professor of Mathematics

Applicant: Sachith Dassanayaka

12.2021   Villanova University

Assistant Teaching Professor in Statistics

Applicant: Sachith Dassanayaka

12.2021   University of Georgia

Department of Statistics

Assistant Professor in The Area Of Statistical Data Science

Applicant: Sachith Dassanayaka

12.2021   University of California

Department of Statistics and Applied Probability

Open-Rank Teaching Professor in Statistics & Data Science

Applicant: Sachith Dassanayaka

12.2021   University of Massachusetts

Mathematical Sciences department

Assistant Professor of Mathematics – Statistics

Applicant: Sachith Dassanayaka

12.2021   The State University of New York College at Geneseo

The Department of Mathematics

Lecturer in Mathematics

Applicant: Sachith Dassanayaka

12.2021   Western Michigan University

The Department of Mathematics

Assistant Professor, Statistics (tenure-track)

Applicant: Sachith Dassanayaka

12.2021 Texas Tech University

Student Financial Aid and Scholarships

Applicant: Odin Schneider

12.2021 Texas Tech University

Student Financial Aid and Scholarships

Applicant: Kayla Spencer

12.2021 University of San Francisco

Mathematics & Statistics

Assistant Professor, Tenure-Track

Applicant: Sachith Dassanayaka

12.2021 University of San Francisco

Master of Science in Data Science Program

Assistant Professor, Tenure-Track

Applicant: Sachith Dassanayaka

12.2021 Southern Illinois University

School of Mathematics and Statistical Sciences

Assistant Professor, Tenure-Track

Applicant: Zhuanzhuan Ma

12.2021 Interfolio.com

A recommendation letter for the positions in Mathematics and Statistics

Applicant: Zhuanzhuan Ma

12.2021 Duquesne University of the Holy Spirit

Assistant Professor of Statistics/Data Science

Applicant: Zhuanzhuan Ma

12.2021 Clarkson University

     School of Mathematics and Statistical Sciences

     Assistant Professor of Statistics/Data Science

     Applicant: Sachith Dassanayaka

12.2021 Auburn University

     The Department of Mathematics and Statistics

     Assistant Professor in Statistics/Data Science

     Applicant: Sachith Dassanayaka

11.2021 New Mexico State University

     Department of Economics, Applied Statistics, & International Business

     Assistant Professor in Applied Statistics position

     Applicant: Zhuanzhuan Ma

11.2021 Adelphi University - Manhattan Center

     The Department of Mathematics and Statistics

     Assistant Professor, Statistics (tenure-track)

     Applicant: Sachith Dassanayaka

11.2021 Oakland University

     The Department of Mathematics and Statistics

     Assistant Professor of Statistics

     Applicant: Sachith Dassanayaka

11.2021 Colorado College

     Department of Mathematics and Computer Science,

     Visiting Assistant Professor, Mathematics and Computer Science

     Applicant: Sachith Dassanayaka

11.2021 Iowa State University

The Department of Mathematics and Statistics

Assistant Professor in Statistical Machine Learning and Data Science

Applicant: Sachith Dassanayaka

11.2021 Winthrop University

The Department of Mathematics and Statistics

Assistant Professor of Mathematics

Applicant: Sachith Dassanayaka

11.2021 Colorado State University

The Department of Statistics

Tenure-track Assistant Professor position

Applicant: Zhuanzhuan Ma

    University of Arkansas

11.2021 The Department of Mathematics and Statistics

Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

11.2021 West Virginia University

The Department of Mathematics and Statistics

Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

    The U.S. Department of Defense, Operational Evaluation Division

The Institute for Defense Analyses (IDA)

11.2021 A full-time staff research position

Applicant: Veniamin Smirnov

10.2021 Augsburg University

The Department of Mathematics and Statistics

Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

Oakland University

The Department of Mathematics and Statistics

10.2021   Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

The Grinnell College

Department of Mathematics and Statistics

10.2021   Assistant/Associate Professor - Statistics

Applicant: Sachith Dassanayaka

The Grinnell College

Department of Mathematics and Statistics

10.2021   Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

The University of New Hampshire

The Peter T. Paul College of Business and Economics

10.2021   Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

The South Dakota Board of Regents, Public Universities & Special Schools

The Department of Mathematics and Statistics

10.2021   Assistant/Associate Professor - Statistics

Applicant: Zhuanzhuan Ma

10.2021   The US National Security Agency

Mathematics Development Program, Math Hiring office

Applicant: Smirnov, Veniamin

Wake Forest University
Department of Mathematics & Statistics
10.2021   Assistant Professor
Applicant: Sachith Eranga Dassanayaka Mudiyanselage

University of Kelaniya, Sri Lanka
Faculty of Science
10.2021   Lecturer position
Applicant: Mahanama, Thilini

University of North Carolina, Chapel Hill
Department of Mathematics & Statistics
10.2021   Assistant Professor
Applicant: Sachith Eranga Dassanayaka Mudiyanselage

2020 Fellowship Travel International
USIP Peace Scholar fellowship Program 2022-23 for students writing doctoral
dissertations on topics broadly related to conflict management, peacebuilding and
10.2021   relevant security studies employing qualitative or quantitative approaches
Applicant: Jayawardena, Sithma

10.2021   MathJobs.Org
American Mathematical Society in cooperation with the Duke University
Department of Mathematics
Applicant: Zhuanzhuan Ma

10.2021   zintellect.com, the Opportunity Catalog
ORAU and the Oak Ridge Institute for Science and Education (ORISE)
Applicant: Smirnov, Veniamin

10.2021	MathJobs.Org
	American Mathematical Society in cooperation with the Duke University Department of Mathematics
	Applicant: Sachith Eranga Dassanayaka Mudiyanselage
09.2021	Texas Tech University Office of International Affairs
	Study Abroad Competitive Scholarship Program Spring 2022
	Applicant: Indika Gihan Gunawardana Ilandari Dewage
09.2021	Texas Tech University Office of International Affairs
	Study Abroad Competitive Scholarship Program Spring 2022
	Applicant: Himali Sakunthala Kalanchige
08.2021	Texas Tech University Office of International Affairs
	Study Abroad Competitive Scholarship Program Spring 2022
	Applicant: Kusal Chirantha Rathnayake
08.2021	Texas Tech University Office of International Affairs
	Study Abroad Competitive Scholarship Program Spring 2022
	Applicant: Hettiarachchige Sithma Sineka Pinto Jayawardena
08.2021	Texas Tech University Office of International Affairs
	Study Abroad Competitive Scholarship Program Spring 2022
	Applicant: Sachith Eranga Dassanayaka Mudiyanselage
06.2021	AcademicJobsOnline.Org
	A reference Letter on behalf of Dr. Isuru Dassanayake (#1079734/1064687/1064675) uploaded June 2021
04.2021	Drew University

The Computer Science & Engineering Department.

Position: Assistant Professor

Applicant: Shuvalaxmi Dass

Bowling Green State University,

Mathematics and Statistics Dept.,

04.2021 Position: Assistant Professor, full-time, tenure-track

Applicant: Isuru Dassanayake

Villanova University,

Mathematics and Statistics Dept.,

04.2021 Position: Visiting Assistant Teaching Professor/Visiting Instructor

Applicant: Isuru Dassanayake

Rowan University,

Mathematics and Statistics Dept.,

04.2021 Position: Tenure Track Assistant Professor

Applicant: Isuru Dassanayake

Miami University,

Business School

04.2021 Position: Assistant Teaching Professor/Assistant Lecturer of Business Analytics

Applicant: Ahmed Belhad

University of Hartford,

Mathematics and Statistics Dept.,

04.2021 Position: Tenure Track Assistant Professor of Business Analytics and Data Science

Applicant: Ahmed Belhad

03.2021 University of Central Florida,

Mathematics and Statistics Dept.,

Position: Assistant Professor, Statistics and Data Science

Applicant: Ahmed Belhad

Harvard University,

Harvard T.H. Chan School of Public Health Department/Area   Biostatistics

03.2021   Position: Postdoctoral Research Fellow in Climate Epidemiology School

Applicant: Ahmed Belhad

University of Central Florida,

Mathematics and Statistics Dept.,

03.2021   Position: Visiting Assistant Professor, Statistics and Data Science, 500053

Applicant: Ahmed Belhad

University of Massachusetts,

Computer Science Department

03.2021   Position: Assistant Professor

Applicant: Shuvalaxmi Dass

Texas Tech University

Position: TTU SIAM Graduate Scholarship for the year 2021-2022

03.2021

Applicant: Dassanayaka, Sachith Eranga

Texas Tech University

Position: TTU SIAM Graduate Scholarship for the year 2021-2022

03.2021

Applicant: Seneviratne, Himali

Colorado College, Colorado Springs

Position: Visiting Assistant Professor of Mathematics or Statistics

03.2021

Applicant: Ahmed Belhad

03.2021   The University of Hartford

The Department of Computing Sciences

Position: Assistant Professor

Applicant: Shuvalaxmi Dass

The University of California, Riverside

The Computer Science & Engineering Department.

03.2021   Position: Assistant Professor

Applicant: Shuvalaxmi Dass

Texas Tech University

Position: TTU SIAM Graduate Scholarship for the year 2021-2022

02.2021   Applicant: Kusal Rathnayake

Texas Tech University

Position: Doctor of Education in Higher Education Administration Program

02.2021   Applicant: Luciano De Paula Vilas Boas

Texas Tech University

Program: Anne and Bill Fisher Memorial Endowed Scholarship

02.2021   Applicant: Sachith Eranga Dassanayaka Mudiyanselage

The University of North Carolina at Chapel Hill

The Computer Science Department.

02.2021   Position: Assistant Professor

Applicant: Shuvalaxmi Dass

Stephen F. Austin State University

Position: Assistant Professor of Statistics

02.2021   Applicant: Ahmed Belhad

02.2021   University of Central Arkansas

Position: Assistant Professor of Cybersecurity-Computer Science position

Applicant: Shuvalaxmi Dass

01.2021

Texas Tech University Office of International Affairs

Study Abroad Competitive Scholarship Program

Applicant: Sachith Eranga Dassanayaka Mudiyanselage

01.2021

Sam Houston State University,

Computer Science Department

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2021

National Science Foundation (NSF)

Position: 2021 NSF Math Sciences Graduate Internship

Applicant: Himali Sakunthala Seneviratne Kalanchige

01.2021

University of Delaware

Office of Graduate Admission, Data Science

Position: PHD program

Applicant: Ahmed Sabit

01. 2020

Microsoft Research

Position: Researcher Position

Applicant: Hrishikesh Das

01.2020

Oakland University

Department of Computer Science

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2020   University of Utah

School of Computing

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2021
University at Albany

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2021
University of Maryland, College Park

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2021
University of South Carolina

Position: Assistant Professor of Computer Science

Applicant: Shuvalaxmi Dass

01.2021
California State University system, Computer Science

Position: Assistant Professor position at the San Jose campus

Applicant: Shuvalaxmi Dass

01.2021
Bentley University

Office of Graduate Admission, Data Science

PhD program

Applicant: Ahmed Sabit

01.2021
Worcester Polytechnic Institute

Graduate Programs, Data Science

PhD program

Applicant: Ahmed Sabit

01.2021 U.S. Food and Drug Administration (FDA)

FDA NCTR Summer Student Research Participation Program 2021

Applicant: Mahanama, Thilini, Mathematics PhD student

Graduate School,

Texas Tech University

01.2021   Doctoral Dissertation Completion Fellowship Preliminary Nomination – 2021

Applicant: Smirnov Veniamin

University of California, San Diego, Mathematics department

Position: Stefan E. Warschawski Visiting Assistant Professor Position

12.2020   Applicant: PhD Erdi Kara

Texas Tech University,

Graduate School

12.2020   Recommendation letter for the application to the Mathematics (MS) program

Applicant: Vidya Paramita

University of Texas at Arlington,

Open Rank Faculty Positions

12.2020   Applicant: PhD Erdi Kara

Carnegie Mellon University,

School of Computer Science

11.2020   Graduate program

Applicant: PhD Mostofa Shakib

University of California, Berkeley

Electrical Engineering & Computer Sciences

11.2020   Position: Assistant Professor

Applicant: PhD Mostofa Shakib

	Carnegie Mellon University
	College of Engineering, The Electrical and Computer Engineering department
11.2020	Position: Assistant Professor
	Applicant: PhD Mostofa Shakib
	Northwestern University
	Program: CSSI in the Kellogg Innov & Entrpshp Init Department at Northwestern
10.2020	University
	Applicant: MS Saeed Moradi
	Cornell University Graduate School
	PhD Program
10.2020	Applicant: MS Saeed Moradi
	Texas Tech University
	The Graduate School of Biomedical Sciences,
10.2020	Program: The Julia Jones Matthews Department of Public Health
	Applicant: MS Hossein, Roham
	Rice University
	Department of Statistics
07.2020	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student
	University of the Incarnate Word
	Department of Mathematics and Statistics
07.2020	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student
06.2020	Rice University
	Department of Statistics

Position: Assistant Professor

Applicant: Ahmed Belhad, Mathematics PhD student

06.2020	Sam Houston State University Position: Assistant Professor Applicant: Ahmed Belhad, Mathematics PhD student
04.2020	Texas Educator Through an Alternative Certification Program Interim TEACH Program TEACH Program Application: ZhuanZhuan Ma, Mathematics PhD student
03.2020	Association for Women in Mathematics AWM Graduate Scholarship Application: Mahanama, Thilini, Mathematics PhD student
03.2020	Texas Tech University SIAM Texas Tech University chapter SIAM Graduate Scholarship Application: Mahanama, Thilini, Mathematics PhD student
03.2020	University of Colorado Boulder Position: Assistant Professor Applicant: Ahmed Belhad, Mathematics PhD student
03.2020	Inter-university Consortium for Political and Social Research ICPSR Summer Program in Quantitative Methods of Social Research Application: ZhuanZhuan Ma, Mathematics PhD student
02.2020	Texas Tech University SIAM Texas Tech University chapter

SIAM Scholarship Application: Dassanayaka Mudiyanselage, Sachith Eranga

Mathematics PhD student

Texas Tech University

Department Mathematics & Statistics

01.2020　Departmental Scholarship Application: Isuru Dassanayake, Mathematics PhD student

Texas Tech University

Department Mathematics & Statistics

01.2020　Departmental Scholarship Application: Mahanama, Thilini, Mathematics PhD student

Texas Tech University

Texas Tech Alumni Scholarships

01.2020　Applicant: Mahanama, Thilini, Mathematics PhD student

Texas Tech University

Financial Aid Office

01.2020　Applicant: Christopher Elizondo, Mathematics student

Ithaca College

Position: Assistant Professor

12.2019　Applicant: Ahmed Belhad, Mathematics PhD student

Skidmore College

Position: Assistant Professor

12.2019　Applicant: Ahmed Belhad, Mathematics PhD student

11.2019　Butler University

Department of Mathematics, Statistics, and Actuarial Science

Position: Assistant Professor

Applicant: Ahmed Belhad, Mathematics PhD student

11.2019	Longwood University
	Department of Mathematics and Computer Science
	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student

11.2019	Rice University
	Department of Statistics
	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student

	The University of Texas at Dallas
	The School of Natural Sciences and Mathematics
11.2019	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student

	Texas Tech University
	Department of Mathematics & Statistics
10.2019	Position: Assistant Professor
	Applicant: Ahmed Belhad, Mathematics PhD student

	Department of Defense (DoD)
	The SMART Scholarship-for-Service Program
09.2019	Applicant: Smirnov Veniamin, Mathematics PhD student

	National Security Agency
09.2019	Graduate Mathematics Program (GMP) – 1128494
	Internship application

Applicant: Smirnov Veniamin, Mathematics PhD student

09.2019	Texas Tech University, Study Abroad Office Program: Study Abroad Competitive Scholarship, Application ID: 464863AFE741CD12 Applicant: Dassanayaka Mudiyanselage, Mathematics PhD student
09.2019	Texas Tech University, Study Abroad Office Program: Study Abroad Competitive Scholarship, Application: 7D1475D1B49A930C Applicant: Rodrigo A Gutierrez
03.2019	Texas Tech University, Department of Mathematics & Statistics Shelby Hildebrand Graduate Fellowship Program Applicant: Smirnov, Veniamin, Mathematics PhD student.
03.2019	Texas Tech University, Department of Mathematics and Statistics, Shelby Hildebrand Graduate Fellowship Program Applicant: Mahanama, Thilini, Mathematics PhD student.
03.2019	Texas Tech University, Department of Mathematics and Statistics, Shelby Hildebrand Graduate Fellowship Program Applicant: Dassanayaka Mudiyanselage, Sachith Eranga, Mathematics PhD student.
01.2019	Texas Tech University, Student Financial Aid & Scholarships Applicant: Servin Torres Eduardo Mathematics Senior
01.2019	Texas Tech University, Student Financial Aid & Scholarships

Applicant: Watson Nicholas, Foundational Engineering Junior

01.2019

Texas Tech University, Study Abroad Office

Program: Study Abroad Competitive Scholarship

Applicant: Grant Christian Handley

01.2018

Texas Tech University, Study Abroad Office

Program: Study Abroad Competitive Scholarship

Applicant: Syed Tahsin Islam

06.2018

The certification letter on behalf of Dean Zhou, Shunyong (SUSE, Sichuan, China) on the visiting scholarship at the Department of Mathematics and Statistics, Texas Tech University in Lubbock, TX, USA from August, 24 2017 to August, 23 2018

supported by the Chinees government.

10.2018

A reference Letter on behalf of Dr. Xing Siyuan (#1079734/1064687/1064675) uploaded on AcademicJobsOnline.Org

12.2018

University of Tennessee at Chattanooga

Mechanical Engineering

Position: Assistant Professor

Applicant: Dr. Xing Siyuan

10. 2018

California State University - Northridge

Mechanical Engineering – Control Systems and Design

Position: Assistant Professor

Applicant: Dr. Xing Siyuan

01. 2019

Oakland University

Mechanical Engineering

Position: Assistant Professor

Applicant: Dr. Xing Siyuan

01. 2019

Texas Tech University

Student Financial Aid & Scholarships

Applicant: Saeed Suleiman, Software Engineering Junior

12.2018

Cal Poly State University, Mechanical Engineering

The recommendation phone call to HR/Personnel Coordinator 805-756-5585 on behalf of Dr. Siyuan Xing, a finalist for the Assistant Professor position in Mechanical Engineering Systems and Controls at Cal Poly State University.

01.2019

Texas Tech University, Department of Industrial Engineering,

Faculty Hiring Meeting with two candidates (Invited by Dr. Ismael de Farias)

Position: Assistant Professor

02.2019

Department of Energy (DOE)

Project Title: Energy Efficiency and Renewable Energy (EERE) Science, Technology and Policy (STP) Opportunity

Applicant: Thilini Mahanama

11.2018

National Science Foundation (NSF)

An Academic recommendation on behalf of Thilini Mahanama for NSF Mathematical Sciences Graduate Internship (MSGI) Program

10.2018

National Science Foundation

NSF Graduate Research Fellowship Program (GRFP)

Applicant: Thilini Mahanama

12. 2018

National Science Foundation

Mathematical Sciences Graduate Internship (MSGI) Program

Applicant: Abootaleb Shirvani

Preparing the College Cooperation Agreements and Graduate Programs

10/2022	Attendee: Texas Tech University – Lockheed Martin Discussion/ Meeting on Science of Sustainment cooperation program. Dy, Le IMMS Director, TTU; Dr. Jeremiah Cain, Director of Sustainment Engineering, Lockheed Martin; Dr. Joseph A. Heppert, Vice President, OR&I, TTU; Dr. Stephen Bayne, Interim Dean, WCOE, TTU; Dr. Michelle Pantoya, Director, Combustion Laboratory, TTU
06.2019	Attendee: Meeting with Dr. Zari Rachev, Dr. David Roach, Associate Dean, Academic Affairs TTU, Stephen T. Crosson, MAI, SRA, FRICS, Managing Director, *Integra Realty Resources – Dallas*, in the framework of organizing cooperation between the Integra National Litigation Group and the Texas Tech University.
09.2017	Preparing a Cooperation Agreement between the College of Art and Science, TTU and the Sichuan University of Science and Engineering, China
11.2017	Organizing the Graduate Program in "Financial Mathematics" on the Department of Mathematics and Statistics, Texas Tech University, along with Dr. Zari Rachev, Dr. Akif Ibragimov, Dr. Alex Trindade, Dr. Jay Conover and Dr. Souparno Ghosh; Member of a College Curriculum Committee
05.2018	Texas Tech University, Rawls College of Business Attendee, Meeting with Dr. Zari Rachev, Dr. Brent Lindquist, Dr. Magdalena Toda,

Dr. Margaret Wiliams in the framework of organizing the Graduate Program in "Financial Mathematics" on the Department of Mathematics and Statistics, Texas Tech University

02. 2018

Lubbock Economic Development Alliance

Risk Assessment and Lubbock Urban Development

Attendee, Meeting with Dr. Zari Rachev, Dr. Brent Lindquist, Jessica Marlar

07. 2018

Texas Tech University, Innovation Hub

Attendee: Meeting with Dr. Zari Rachev, Mrs Kimberly Gramm

A discussion on the possibility for the MS TTU students to take part in the TTU Acceleration program at the IH TTU and possible collaboration.

Departmental Service

Since 2021 – A Member of the Departmental Resource Committee, Department of Mathematics and Statistics, Texas Tech University

10/2023

Participation in the Meeting of the Departmental Resource Committee, Department of Mathematics and Statistics Texas Tech University

09/2023

Texas Tech University

Department of Mathematics and Statistics

Teaching Evaluation & Peer Review Evaluation for the Years 2021-2023

Assistant Professor: Dr. Juntao Huang

01/2022

Texas Tech University

Department of Mathematics and Statistics

Teaching Evaluation & Peer Review Evaluation for the Years 2019-2021

Assistant Professor: Dr. Stamatis Pouliasis

Community Service

05.2018	Texas Tech University, Department Mathematics and Statistics Organizing the XVI edition of the Emmy Noether Day (12K students) Organizing the Conference Poster Session
05.2019	Texas Tech University, Department Mathematics and Statistics Organizing the XVII edition of the Emmy Noether Day at the Department Mathematics and Statistics, TTU

Service to the Profession

Since 2020	Chairing the V. Afraimovich International Award Committee for outstanding young scholars in Nonlinear Physical Science Nonlinear Science and Complexity Conference Series, Laureates: Vitali Vougalter (Canada), 2020; Nikolay V. Kuznetsov (Russia), 2021; Michael Small (Australia),2022; Edson Denis Leonel (Brazil),2023;
09/ 2023	Charing the Scientific Awards Committee for the Days of Applied Nonlinearity and Complexity (DANOC) hosted on January 12-14, 2024 by the Aristotle University of Thessaloniki, Greece. • Ichtiaroglou Award for lifetime achievement in the Theory of Nonlinear Systems (Laureate 2023: Tasos Bountis) • Lorenz Award for lifetime achievement in Dynamical Systems, Methods, and Techniques in Natural Sciences Systems (Laureate 2023: Robert Mackay)

Editorship
Providing guidelines to authors for preparing and submitting manuscripts; establishing and defining policies on conflicts of interest for all involved in the publication process, including editors, staff (e.g., editorial and sales), authors, and reviewers; providing a clear statement of the Journal's

policies on authorship criteria; treating all authors with fairness, courtesy, objectivity, honesty, and transparency and protecting the confidentiality of every author's work; making editorial decisions with reasonable speed and communicating them in a clear and constructive manner in the following:

- *Journals*

  Since 2020 - Journal of Environmental Accounting & Management, L&H Scientific Publishing (USA)

  Since 2020 - Advanced Mathematical Models & Applications, Jomard Publishing

  Since 2016 - Complexity*,* John Wiley & Sons and Hindawi

  Since 2016 - Vibration Testing and System Dynamics, L&H Scientific Publishing (USA)

  Since 2012 - Discontinuity, Nonlinearity and Complexity, L&H Scientific Publishing (USA)

  Since 2012 - Communications in Nonlinear Science and Numerical Simulations, ELSEVIER

- *Book Series*

  Since 2018 - Nonlinear Physical Science ISSN: 1867-8440 – Springer

Providing written, unbiased, constructive feedback on the scholarly merits and the scientific value of the work as a *Reviewer* in the following:

- *Journals*

  Since 2023 – European Journal of Mathematics

  Since 2023 – Advances in Engineering Software

  Since 2023 – Chaos, Solitons & Fractals

  Since 2021- International Journal of Bifurcation and Chaos

  Since 2020- Complex Variables and Elliptic Equations

  Since 2019- Journal of Modern Mechanical Engineering and Technology

  Since 2018- Advances in Systems Science and Applications

  Since 2018- The Egyptian International Journal of Engineering Sciences and Technology

  Since 2018- Journal of Data Analysis and Information Processing

  Since 2009- Complexity

  Since 2016- IEEE Transactions on Knowledge and Data Engineering

  Since 2009- Statistics and Probability Letters

  Since 2017- International Journal of Sociology and Anthropology

  Since 1998- Journal of Statistical Physics

  Since 2010- Discrete Applied Mathematics

Since 2008- Zentralblatt für Mathematik

Since 2009- Large-scale Systems Control

Since 2012- Discontinuity, Nonlinearity and Complexity

Since 2012- PLoS ONE

Since 2010- Chaos

Since 2012- Communications in Nonlinear Science and Numerical Simulations

Since 1998- European Physical Journal B

Since 2000- Mathematical reviews (AMS)

Since 2008- Proceedings of the Royal Society A

Since 1997- Journal of Physics A

Since 1999- Physica D

Since 2001- Stochastics and dynamics

Since 1998- Arabian Journal of Science and Engineering (University of King Fahd)

Since 2001- Nonlinear Dynamics

Since 2000- Physics Letter A

Since 2015- Advances in Fuzzy Systems

Since 2017- Journal of Dance Medicine and Science

Since 2018- Data-Enabled Discovery and Applications

- *Book Series*

  Since 2010- Springer Series: Applied Mathematical Sciences

  Since 2011- Springer Series: Interdisciplinary Applied Mathematics

  Since 2012- Springer Series: Theoretical and Mathematical Physics

  Since 2008- Springer Series: Understanding Complex Systems

  Since 2009- Springer Series: Institute for Nonlinear Science

Other Synergetic Activities (not listed above)

1999 – 2006   Member of the National Board of Specialists (Physics) (Russia)

1996 – 2006   Member of the National Board of the Physics Olympiad (Russia)