Luan Thach Hoang

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Education

• 2005	<i>Ph.D. in Mathematics</i> Texas A&M University, College Station, Texas
• 2000	<i>M.A. in Mathematics</i> Arizona State University, Tempe, Arizona
• 1997	B.S. in Mathematics National University, Hochiminh City, Vietnam
• 1997	B.S. in Information Technology National University, Hochiminh City, Vietnam

Employment

•	9.2014 - present	Texas Tech University, Lubbock, T	exas
	_	Associate professor	

- 9.2008 8.2014 Texas Tech University, Lubbock, Texas Assistant professor
- 9.2005 5.2008 University of Minnesota, Minneapolis, Minnesota Dunham Jackson assistant professor
- 6.2004 12.2004 Texas A&M University, College Station, Texas Teaching assistant
- 9.2000 8.2002 Indiana University, Bloomington, Indiana Associate instructor
- 9.1998 8.2000 Arizona State University, Tempe, Arizona Teaching assistant, research assistant
- 9.1997 8.1998 National University, Hochiminh City, VietnamInstructor

Research Interest

Partial differential equations, fluid dynamics, porous media equations, dynamical systems.

Publications

- Luan Hoang and Akif Ibragimov, A class of anisotropic diffusion-transport equations in nondivergence form, 1–24. submitted. Preprint. DOI: 10.48550/arXiv.2503.03089
- Luan Hoang, Asymptotic expansions with subordinate variables for solutions of the Navier-Stokes equations, 1–40, submitted. Preprint DOI: 10.48550/arXiv.2403.03132

- 47. Luan Hoang, On the finite time blow-ups for solutions of nonlinear differential equations, 1-29, submitted. Preprint DOI: 10.48550/arXiv.2303.10153
- 46. Luan Hoang, Behavior near the extinction time for systems of differential equations with sublinear dissipation terms, Electronic Journal of Differential Equations, Vol. 2025 (2025), No. 08, 1-26. DOI: 10.58997/ejde.2025.08
- 45. Luan Hoang, Thinh Kieu, Anisotropic flows of Forchheimer-type in porous media and their steady states, Nonlinear Analysis: Real World Applications (August 2025), Vol. 84, 104269 (30 pp).
 DOI: 10.1016/j.nonrwa.2024.104269
- 44. Luan Hoang, A new form of asymptotic expansion for non-smooth differential equations with time-decaying forcing functions, Differential Equations and Dynamical Systems (2024), 1–45, in press. DOI: 10.1007/s12591-024-00703-z
- 43. Luan Hoang, Michael S. Jolly, Intrinsic expansions in large Grashof numbers for the steady states of the Navier-Stokes equations, Nonlineary (2024), Vol. 37, No. 12, 125008 (32 pp). DOI: 10.1088/1361-6544/ad84aa
- 42. Luan Hoang, Asymptotic expansions about infinity for solutions of nonlinear differential equations with coherently decaying forcing functions, Annali della Scuola Normale Superiore di Pisa, Classe di Scienze, Vol. XXV, No. 1 (2024), 311–370. DOI: 10.2422/2036-2145.202109_004
- Ciprian Foias, Luan Hoang, Michael S. Jolly, On Galerkin approximations of the Navier-Stokes equations in the limit of large Grashof numbers, Communications on Pure and Applied Analysis, Volume 23, Issue 2 (2024), 269–303. DOI: 10.3934/cpaa.2024010
- 40. Luan Hoang, The Navier-Stokes equations with body forces decaying coherently in time, Journal of Mathematical Analysis and Applications, Vol. 531, Issue 2, Part 1 (2024), 127863 (39 pp).
 DOI: 10.1016/j.jmaa.2023.127863
- Luan Hoang, Long-time behaviour of solutions of superlinear systems of differential equations, Dynamical Systems, Vol. 39, No. 1 (2024), 79–107. DOI: 10.1080/14689367.2023.2234845
- Emine Celik, Luan Hoang, Thinh Kieu, Studying a doubly nonlinear model of slightly compressible Forchheimer flows in rotating porous media, Turkish Journal of Mathematics, Turkish Journal of Mathematics, Vol. 47, No. 3 (2023), 949–987. DOI: 10.55730/1300-0098.3405
- Dat Cao, Luan Hoang, Thinh Kieu, Infinite series asymptotic expansions for decaying solutions of dissipative differential equations with non-smooth nonlinearity, Qualitative Theory of Dynamical Systems, Volume 20, Issue 3 (2021), 62, 38 pp. DOI: 10.1007/s12346-021-00502-9
- Emine Celik, Luan Hoang, Thinh Kieu, Slightly compressible Forchheimer flows in rotating porous media, Journal of Mathematical Physics, Volume 62 (2021), Issue 7, 073101, 39 pp. DOI: 10.1063/5.0047754
- 35. Dat Cao, Luan Hoang, Asymptotic expansions with exponential, power, and logarithmic functions for non-autonomous nonlinear differential equations, Journal of Evolution Equations, Volume 21, Issue 2, 1179–1225, 2021. DOI: 10.1007/s00028-020-00622-w

- 34. Luan Hoang, Asymptotic expansions for the Lagrangian trajectories from solutions of the Navier-Stokes equations, Communications in Mathematical Physics, Volume 383, Issue 2, 981-995 (2021).
 DOI: 10.1007/s00220-020-03863-5
- Luan Hoang, Edriss Titi, Asymptotic expansions in time for rotating incompressible viscous fluids, Annales de l'Institut Henri Poincaré. Analyse Non Linéaire, Volume 38, Issue 1, January-February 2021, 109–137. DOI: 10.1016/j.anihpc.2020.06.005
- Dat Cao, Luan Hoang, Asymptotic expansions in a general system of decaying functions for solutions of the Navier-Stokes equations, Annali di Matematica Pura ed Applicata, Vol. 199, No. 3 (2020), 1023–1072. DOI: 10.1007/s10231-019-00911-3
- Dat Cao, Luan Hoang, Long-time asymptotic expansions for Navier-Stokes equations with power-decaying forces, Proceedings of the Royal Society of Edinburgh: Section A Mathematics, Vol. 150, No. 2 (2020), 569-606. DOI: 10.1017/prm.2018.154
- Luan Hoang, Thinh Kieu, Global estimates for generalized Forchheimer flows of slightly compressible fluids, Journal d'Analyse Mathematique, March 2019, Volume 137, Issue 1, 1–55. DOI: 10.1007/s11854-018-0064-5
- Emine Celik, Luan Hoang, Thinh Kieu, Doubly nonlinear parabolic equations for a general class of Forchheimer gas flows in porous media, Nonlinearity, Vol. 31, No. 8 (2018) 3617– 3650. DOI: 10.1088/1361-6544/aabf05
- Ciprian Foias, Luan Hoang, Jean-Claude Saut, Navier and Stokes meet Poincaré and Dulac, J. Appl. Anal. Comput., Volume 8, Number 3, (June 2018) 727–763. (survey) DOI: 10.11948/2018.727
- Luan Hoang, Vincent Martinez, Asymptotic expansion for solutions of the Navier-Stokes equations with non-potential body forces, J. Math. Anal. Appl., Volume 462, Issue 1, (1 June 2018) 84–113. DOI: 10.1016/j.jmaa.2018.01.065
- Emine Celik, Luan Hoang, Thinh Kieu, Generalized Forchheimer flows of isentropic gases, J. Math. Fluid Mech., (March 2018) Volume 20, Issue 1, 83–115. DOI: 10.1007/s00021-016-0313-2
- Luan Hoang, Eric Olson, James Robinson, Continuity of pullback and uniform attractors, J. Differential Equations, Volume 264, Issue 6, (15 March 2018) 4067–4093. DOI: 10.1016/j.jde.2017.12.002
- 24. Luan Hoang, Thinh Kieu, Interior estimates for generalized Forchheimer flows of slightly compressible fluids, Advanced Nonlinear Studies, 17(4), (October 2017) 739–767. DOI: 10.1515/ans-2016-6027
- Luan Hoang, Vincent Martinez, Asymptotic expansion in Gevrey spaces for solutions of Navier-Stokes equations, Asymptotic Analysis, (2017), vol. 104, no. 3–4, 167–190. DOI: 10.3233/ASY-171429
- Emine Celik, Luan Hoang, Akif Ibragimov, Thinh Kieu, Fluid flows of mixed regimes in porous media, J. Math. Phys., Volume 58 (2017), No. 2, 023102, 30 pp. DOI: 10.1063/1.4976195
- Emine Celik, Luan Hoang, Maximum estimates for generalized Forchheimer flows in heterogeneous porous media, J. Differential Equations, Volume 262, Issue 3 (5 February 2017), 2158-2195. DOI: 10.1016/j.jde.2016.10.043

- 20. Luan Hoang, Truyen Nguyen, Tuoc Phan, Local gradient estimates for degenerate elliptic equations, Advanced Nonlinear Studies, Volume 16, Issue 3 (Aug 2016), 479–489. DOI: 10.1515/ans-2015-5038
- Emine Celik, Luan Hoang, Generalized Forchheimer flows in heterogeneous porous media, Nonlinearity, Volume 29, Number 3 (March 2016), 1124–1155. DOI: 10.1088/0951-7715/29/3/1124
- Luan Hoang, Akif Ibragimov, Thinh Kieu, Zeev Sobol, Stability of solutions to generalized Forchheimer equations of any degree, Journal of Mathematical Sciences (via journal "Problems in Mathematical Analysis"), Volume 210, Number 4 (2015), 476–544. DOI: 10.1007/s10958-015-2576-1
- Luan Hoang, Eric Olson, James Robinson, On the continuity of global attractors, Proc. Amer. Math. Soc., Volume 143, Number 10 (2015), 4389–4395. DOI: 10.1090/proc/12598
- 16. Luan Hoang, Truyen Nguyen, Tuoc Phan, Gradient estimates and global existence of smooth solutions to a cross-diffusion system, SIAM Journal on Mathematical Analysis, SIAM Journal on Mathematical Analysis, Volume 47, Issue 3 (2015), 2122–2177. DOI: 10.1137/140981447
- Luan Hoang, Akif Ibragimov, Thinh Kieu, A family of steady two-phase generalized Forchheimer flows and their linear stability analysis, J. Math. Phys. 55, Issue 12 (2014), 123101, 32 pp. DOI: 10.1063/1.4903002
- Luan Hoang, Thinh Kieu, Tuoc Phan, Properties of generalized Forchheimer flows in porous media, "Problems of Mathematical Analysis", volume 76 (July-August 2014), and in "Journal of Mathematical Sciences", Vol. 202 No. 2 (October 2014), 259–332. DOI: 10.1007/s10958-014-2045-2
- Luan Hoang, Incompressible fluids in thin domains with Navier friction boundary conditions (II), Journal of Mathematical Fluid Mechanics, Volume 15, Issue 2, (June 2013) 361–395. DOI: 10.1007/s00021-012-0123-0
- Luan Hoang, Akif Ibragimov, Thinh Kieu, One-dimensional two-phase generalized Forchheimer flows of incompressible fluids, J. Math. Anal. Appl., Volume 401, Issue 2, (May 2013) 921–938. DOI: 10.1016/j.jmaa.2012.12.055
- Luan Hoang, Akif Ibragimov, Qualitative study of generalized Forchheimer flows with the flux boundary condition, Advances in Differential Equations, Volume 17, Numbers 5-6, (May/June 2012) 511-556. https://projecteuclid.org/euclid.ade/1355703078
- Ciprian Foias, Luan Hoang, Jean-Claude Saut, Asymptotic integration of Navier-Stokes equations with potential forces. II. An explicit Poincaré-Dulac normal form, Journal of Functional Analysis, Vol. 260, Issue 10 (2011), 3007–3035. DOI: 10.1016/j.jfa.2011.02.005
- Luan Hoang, Akif Ibragimov, Structural stability of generalized Forchheimer equations for compressible fluids in porous media, Nonlinearity, Volume 24, Number 1 (January 2011) 1– 41. DOI: 10.1088/0951-7715/24/1/001
- Luan Hoang, George R Sell, Navier-Stokes equations with Navier boundary conditions for an oceanic model, Journal of Dynamics and Differential Equations, Volume 22, Number 3 (September 2010), 563-616.
 DOI: 10.1007/s10884-010-9189-7

- Luan Hoang, Incompressible fluids with Navier friction boundary conditions in thin domains (I), Journal of Mathematical Fluid Mechanics, Volume 12, Number 3 (August 2010), 435–472. DOI: 10.1007/s00021-009-0297-2
- Eugenio Aulisa, Lidia Bloshanskaya, Luan Hoang, Akif Ibragimov, Analysis of generalized Forchheimer equations of compressible fluids in porous media, Journal of Mathematical Physics 50, Issue 10, (2009), 103102, 44 pp. DOI: 10.1063/1.3204977
- Ciprian Foias, Luan Hoang, Basil Nicolaenko, On the helicity in 3D Navier–Stokes equations II: The statistical case, Communications in Mathematical Physics, Volume 290, Issue 2 (2009), 679–717. DOI: 10.1007/s00220-009-0827-z
- Ciprian Foias, Luan Hoang, Eric Olson, Mohammed Ziane, The normal form of the Navier-Stokes equations in suitable normed spaces, Annales de l'Institute Henri Poincaré - Analyse Non Linéaire, Volume 26, Issue 5 (September-October 2009), 1635–1673. DOI: 10.1016/j.anihpc.2008.09.003
- Luan Hoang, A basic inequality for the Stokes operator related to the Navier boundary condition, Journal of Differential Equations, Volume 245, Issue 9 (November 2008), 2585–2594. DOI: 10.1016/j.jde.2008.01.024
- Ciprian Foias, Luan Hoang, Basil Nicolaenko, On the helicity in 3D Navier-Stokes equations I: The non-statistical case, Proceedings of the London Mathematical Society, Volume 94 Part 1 (January 2007) 53-90. DOI: 10.1112/plms/pd1003
- Ciprian Foias, Luan Hoang, Eric Olson, Mohammed Ziane, On the solutions to the normal form of the Navier-Stokes equations, Indiana University Mathematics Journal, Vol. 55, No 2 (2006) 631-686.
 DOI: 10.1512/iumj.2006.55.2830

Funding

- 2014–2017 Title: Nonlinear Couplings for Flows in Fractured Porous Media: Analysis and Numerical Algorithms Agency: NSF - Applied Mathematics Amount: \$290,001.00 Role: Co-principal investigator Status: Funded, DMS 1412796
- 2009–2012 Title: Analysis of non-linear flows in heterogeneous porous media and applications Agency: NSF - Applied Mathematics Amount: \$221,626 Role: Co-principal investigator Status: Funded, DMS 0908177
- 2009 Title: Mini-Symposium on Nonlinear Analysis, PDE, and Applications Agency: NSF - Applied Mathematics Amount: \$15,000 Role: Principal investigator Status: Funded, DMS 0931596

Conferences

• 3.29.2025 AMS 2025 Spring Central Sectional Meeting University of Kansas, Lawrence, Kansas, March 29–30, 2025 INVITED TALK: Intrinsic expansions in large Grashof numbers for the steady states of the Navier-Stokes equations

• 3.8.2025	The 2025 Texas Differential Equations Conference University of Houston-Downtown, March 8, 2025 INVITED TALK: Anisotropic Forchheimer flows in porous media
• 10.13.2024	SIAM Conference Texas-Louisiana Section, 7th Annual Meeting Baylor University, Waco, Texas, October 11–13, 2024 INVITED TALK: On Galerkin approximations of the Navier-Stokes equations with large Grashof numbers
• 7.12.2024	The 2024 SIAM Annual Meeting Spokane, Washington, July 8–12, 2024 INVITED TALK: Asymptotic expansions for the Navier–Stokes equations
• 2.21.2022	Workshop "Quasi-linear PDEs in Fluid II" Virtual, jointly organized by Japan, Korea, U.S., February 20 – 21, 2022 INVITED TALK: Open problems in asymptotic expansions for viscous incom- pressible fluids
• 9.18.2021	The 44th SIAM Southeastern Atlantic Section Conference Auburn University, Auburn, Alabama, September 18-19, 2021 INVITED TALK: Infinite series asymptotic expansions for solutions of dissi- pative nonlinear differential equations
• 7.25.2021	Saigon Summer Meeting 2021 Online, July 24-25, 2021 INVITED TALK: Large time asymptotic behaviors of fluids in the Eulerian and Lagrangian formulations
• 1.7.2021	2021 Joint AMS-MAA Mathematics Meeting Virtual, January 6-9, 2021 INVITED TALK: Asymptotic expansions for decaying solutions of dissipative differential equations
• 9.12.2020	AMS 2020 Fall Central Sectional Meeting Virtual, September 12-13, 2020. INVITED TALK: Asymptotic expansions for the Lagrangian trajectories from solutions of the Navier-Stokes equations
• 10.12.2019	AMS 2019 Fall Eastern Sectional Meeting Binghamton University, Binghamton, New York, October 12-13, 2019 INVITED TALK: Asymptotic expansions for rotating incompressible viscous fluids
• 10.6.2018	The 4th Annual Meeting of SIAM Central States Section Norman, Oklahoma, October 5-7, 2018 INVITED TALK: Developments in asymptotic expansions for solutions of Navier-Stokes equations
• 1.4.2017	2017 Joint Mathematics Meeting Atlanta, Georgia, January 4-7, 2017 INVITED TALK: Asymptotic expansion for solutions of Navier-Stokes equa- tions with a non-potential body force
• 7.3.2016	The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, July 1-5, 2016 INVITED TALK: Global existence of smooth solutions to the SKT system in high dimensional spaces

• 5.18.2016	International Conference on Evolution Equations in conjunction with the 31st annual Shanks Lecture Vanderbilt University, Nashville, TN, May 16-20, 2016 INVITED TALK: Asymptotic expansion for solutions of Navier-Stokes equa- tions with a non-potential body force
• 5.16.2016	46th Annual John H. Barrett Memorial Lectures University of Tennessee, Knoxville, TN, May 16-18, 2016 INVITED TALK: Regular solutions of the SKT system in any dimensions
• 3.12.2016	The 40th SIAM Southeastern Atlantic Section Conference (SIAM-SEAS). Applied Mathematics University of Georgia, Athens, Georgia, March 12-13, 2016 INVITED TALK: Asymptotic expansion for solutions of Navier-Stokes equa- tions
• 1.8.2016	2016 Joint Mathematics Meeting Seattle, Washington, January 6-9, 2016 INVITED TALK: On non-Darcy fluid flows in porous media
• 12.7.2015	SIAM Conference on Analysis of Partial Differential Equations Scottsdale, Arizona, December 7-10, 2015 TALK: Continuity of attractors for dynamical systems
• 4.19.2015	AMS 2015 Spring Western Sectional Meeting Las Vegas, NV, April 18-19, 2015 INVITED TALK: On the normal form of Navier-Stokes equations in Gevrey spaces
• 7.10.2014	The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications Madrid, Spain, July 7-11, 2014 INVITED TALK: Estimates in $W^{1,\infty}$ for generalized Forchheimer equations in porous media
• 7.1.2014	Advances in Mathematical Fluid Mechanics, Stochastic and Deterministic Methods Lisbon, Portugal, June 30-July 5, 2014 INVITED TALK: On two-phase Forchheimer flows of incompressible fluids
• 4.12.2014	AMS 2014 Spring Central Sectional Meeting Texas Tech University, Lubbock, TX, April 11-13, 2014 INVITED TALK: Derivative estimates for generalized Forchheimer flows
• 12.9.2013	SIAM conference on Analysis of Partial Differential Equations Lake Buena Vista, Florida, December 7-10, 2013 INVITED TALK: On dynamics of fluid flows in porous media
• 10.28.2012	AMS 2012 Fall Western Section Meeting University of Arizona, Tucson, AZ, October 27-28, 2012 INVITED TALK: The Stokes operator for an interface boundary value problem in two-layer domains
• 10.21.2012	AMS 2012 Central Fall Section Meeting University of Akron, Akron, OH, October 20-21, 2012 INVITED TALK: Generalized Forchheimer equations for slightly compressible fluids

• 7.4.2012	The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, July 1-5, 2012 INVITED TALK: A Poincaré–Dulac normal form for Navier–Stokes equa- tions
• 11.17.2011	SIAM Conference on Analysis of Partial Differential Equations San Diego, CA, November 14-17, 2011 INVITED TALK: Navier–Stokes equations in thin two-layer domains with non-flat boundaries
• 11.16.2011	SIAM Conference on Analysis of Partial Differential Equations San Diego, CA, November 14-17, 2011 INVITED TALK: Analysis of non-Darcy compressible flows in porous media
• 3.26.2011	34th Annual Texas Differential Equations Conference University of Texas-Pan American, Edinburg, TX, March 26-27, 2011 INVITED TALK: Dynamics and Stabilities of Generalized Forchheimer Flows in Porous Media
• 10.10.2010	AMS 2010 Fall Western Section Meeting Los Angeles, CA, October 9-10, 2010 INVITED TALK: Structural stability of nonlinear flows in porous media
• 4.25.2009	AMS 2009 Spring Western Section Meeting San Francisco, CA, April 25-26, 2009 INVITED TALK: Generalized Forchheimer equations in porous media
• 5.19.2008	The 7th AIMS International Conference on Dynamical Systems and Dif- ferential Equations Arlington, TX, May 18-21, 2008 INVITED TALK: On the normal form of the Navier–Stokes equations in suit- able Banach spaces
• 12.11.2007	SIAM Conference on Analysis of Partial Differential Equations Mesa, AZ, December 10-12, 2007 INVITED TALK: Incompressible fluids in thin domains with Navier friction boundary conditions
• 11.19.2007	Nonlinear Dynamics and PDE Mini-Conference Arizona State University, Tempe, AZ, November 19-20, 2007 INVITED TALK: Navier-Stokes equations: the normalization map, statistical solutions and fluid dynamics
• 11.4.2007	AMS 2007 Fall Southeastern Meeting Murfreesboro, TN, November 3-4, 2007 INVITED TALK: Global strong solutions of equations in geophysical fluid dynamics
• 5.28.2007	The 3rd Symposium on Analysis & PDEs Purdue University, West Lafayette, IN, May 27-30, 2007 CONTRIBUTED TALK: Regularity of the Stokes operator in thin domains
• 5.21.2007	US-Chile Workshop on New Developments in Partial Differential Equa- tions I Carnegie Mellon University, Pittsburgh, PA, May 21-24, 2007 CONTRIBUTED TALK: Navier-Stokes equations with Navier boundary condi- tions in nearly flat domains

• 3.17.2007	AMS 2007 Spring Central Section Meeting Oxford, OH, March 16-17, 2007 INVITED TALK: Statistical solutions to the Navier–Stokes equations and long time behaviors of fluid flows
• 3.4.2007	AMS 2007 Spring Southeastern Section Meeting Davidson, NC, March 3-4, 2007 INVITED TALK: Studying the normal form of the Navier–Stokes equations in suitable Banach spaces
• 3.18.2005	AMS 2005 Spring Southeastern Sectional Meeting Bowling Green, KY, March 18-19 INVITED TALK: On the solutions to the normal form of the Navier–Stokes Equations
• 12.2004	SIAM Conference on Analysis of Partial Differential Equations Houston, TX, December 6-8, 2004 INVITED TALKS: On the convergence of the asymptotic expansions of the regular solutions to the 3D-periodic Navier–Stokes equations and applica- tions to asymptotic behavior of helicity. Parts I and II.
• 4.3.2004	AMS 2004 Spring Western Section Meeting Los Angeles, CA, April 3-4 INVITED TALK: On the helicity in 3D Navier–Stokes equations

Seminars and Colloquia

• 3.28.2025	Applied Mathematics Seminar Department of Mathematics, Kansas State University INVITED TALK: On the Forchheimer flows in anisotropic porous media
• 2.3.2025	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions with a subordinate variable for non- smooth differential equations. Part II
• 1.27.2025	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions with a subordinate variable for non- smooth differential equations. Part I
• 9.23.2024	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Anisotropic flows of Forchheimer-type in porous media. Part II
• 9.16.2024	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Anisotropic flows of Forchheimer-type in porous media. Part I
• 2.19.2024	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: On Galerkin approximations of the Navier–Stokes equations in the limit of large Grashof numbers (Part II)
• 2.12.2024	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: On Galerkin approximations of the Navier–Stokes equations in the limit of large Grashof numbers

• 11.13.2023	V. I. Smirnov Seminar on Mathematical Physics St. Petersburg Department of Steklov Mathematical Institute INVITED TALK: Complicated asymptotic expansions for the Navier–Stokes equations
• 9.18.2023	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: On the finite time extinction for nonlinear differential equa- tions (Part II)
• 9.11.2023	Analsyis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: On the finite time extinction for nonlinear differential equa- tions (Part I)
• 4.5.2023	SIAM Student Chapter Meeting Department of Mathematics, University of North Georgia INVITED TALK: Behavior near the extinction time for systems of differential equations with sublinear dissipation terms
• 3.6.2023	PDE Seminar Department of Mathematics, Indiana University INVITED TALK: Asymptotic expansions for solutions of the Navier–Stokes equations with body forces decaying coherently in time
• 1.23.2023	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Long-time behavior of solutions of superlinear systems of differential equations
• 9.19.2022	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: The Navier–Stokes equations with body forces decaying co- herently in time
• 3.21.2022	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: A doubly nonlinear model of slightly compressible Forch- heimer flows in rotating porous media
• 10.4.2021	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions about infinity for solutions of non- linear differential equations with coherently decaying forcing functions
• 9.9.2021	PDE Seminar Department of Mathematics University of Tennessee, Knoxville INVITED TALK: Asymptotic analysis for viscous, incompressible fluids
• 2.22.2021	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Infinite series asymptotic expansions for dissipative differ- ential equations with non-smooth nonlinearity
• 1.26.2021	Nonlinear PDEs Seminar, Department of Mathematics, Texas A&M University INVITED TALK: The Navier-Stokes equations: asymptotic expansions for solutions and their associated Lagrangian trajectories

• 10.8.2020	Applied Mathematics Seminar Department of Mathematics and Statistics, Hunter College INVITED TALK: Long-time asymptotic expansions for viscous incompressible fluid flows
• 9.21.2020	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic analysis of the Lagrangian trajectories from solutions of the Navier-Stokes equations
• 3.9.2020	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions for solutions of the Navier–Stokes– Boussinesq equations. Parts II
• 3.2.2020	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions for solutions of the Navier–Stokes– Boussinesq equations. Parts I
• 10.7.2019	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Slightly Compressible Forchheimer Flows in Rotating Porous Media. Parts II
• 9.30.2019	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Slightly Compressible Forchheimer Flows in Rotating Porous Media. Parts I
• 4.15.2019	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions for decaying solutions of ODEs. Parts II
• 4.8.2019	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions for decaying solutions of ODEs. Parts I
• 11.26.2018	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions in time for solutions of Navier- Stokes equations of rotating fluids
• 9.27.2018	Colloquium Department of Mathematics and Statistics, Texas Tech University TALK: Analysis of Navier-Stokes systems and Forchheimer flows
• 3.5.2018	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Asymptotic expansions in Gevrey spaces for solutions of Navier-Stokes equations in periodic domains
• 2.26.2018	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Gevrey classes and the Navier-Stokes equations. Part II

• 12.4.2017	Differential Equations Seminar Department of Mathematics and Statistics, University of Maryland Balti- more County INVITED TALK: Studying nonlinear fluid flows in heterogeneous porous me- dia
• 11.20.2017	Analysis Seminar Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Gevrey classes and the Navier-Stokes equations
• 11.10.2017	Joint PDEs and Mathematical Physics Seminar, Department of Mathematics, Texas A&M University INVITED TALK: Large-time asymptotic expansions for solutions of Navier- Stokes equations
• 11.3.2017	Colloquium Department of Mathematics, University of North Georgia INVITED TALK: Asymptotic expansions in large time for solutions of non- autonomous differential equations
• 10.16.2017	Differential Equations and Applied Math Seminar, Department of Mathematics, University of Louisville INVITED TALK: Foias-Saut expansions for solutions of nonlinear differential equations
• 9.27.2017	Seminar Institute for Scientific Computing and Applied Mathematics, Indiana University INVITED TALK: Asymptotic expansions of Foias-Saut type for Navier-Stokes equations with decaying non-potential forces
• 9.14.2017	Differential Equations Seminar Department of Mathematics, University of Tennessee INVITED TALK: Foias-Saut asymptotic expansions for solutions of Navier- Stokes equations with time-dependent forces
• 3.20.2017	Analysis Seminars Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Models and analysis of fluid flows in heterogeneous porous media (Part II)
• 3.6.2017	Analysis Seminars Department of Mathematics and Statistics, Texas Tech University INVITED TALK: Models and analysis of fluid flows in heterogeneous porous media (Part II)
• 12.2.2016	Colloquium Department of Mathematics and Statistics, University of Maryland, Balti- more County INVITED TALK: On the theory of asymptotic expansions and normal form for Navier-Stokes equations
• 2.17.2016	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Continuity of global, pullback and uniform attractors
• 9.16.2015	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Global estimates for generalized Forchheimer flows of slightly com- pressible fluids. Part II.

• 9.9.2015	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Global estimates for generalized Forchheimer flows of slightly com- pressible fluids
• 9.17.2014	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Analysis of single and multi phase flows in porous media (III)
• 9.10.2014	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Analysis of single and multi phase flows in porous media (II)
• 9.3.2014	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Analysis of single and multi phase flows in porous media (I)
• 6.26.2014	Analysis & PDEs Seminar Warwick Mathematics Institute, University of Warwick TALK: Single and multi phase Forchheimer flows in porous media
• 4.29.2014	Bio-Math Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Global solutions of the Shigesada-Kawasaki-Teramoto system
• 10.1.2013	Colloquium Department of Mathematics and Statistics, Texas Tech University TALK: Non-linear Problems in Fluid Dynamics
• 9.4.2013	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: L-infinity estimates for generalized Forchheimer flows
• 3.20.2013	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Generalized Forchheimer equations for porous media: Part V
• 4.11.2012	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: An interface boundary value problem for incompressible fluids in two-layer domains (II)
• 4.4.2012	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: An interface boundary value problem for incompressible fluids in two-layer domains (I)
• 10.14.2011	Colloquium Department of Mathematics, University of Tennessee, Knoxville TALK: Navier–Stokes equations and geophysical fluid dynamics
• 9.7.2011	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part IV (lecture 2)
• 8.31.2011	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part IV (lecture 1)

• 4.13.2011	CAMP/Nonlinear PDEs Seminar Department of Mathematics, University of Chicago INVITED TALK: An explicit Poincaré–Dulac normal form for Navier–Stokes equations
• 2.9.2011	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: An explicit Poincaré–Dulac normal form for Navier–Stokes equa- tions
• 9.27.2010	PDE/Applied Math Seminar Department of Mathematics, Indiana University INVITED TALK: An explicit Poincaré–Dulac normal form for Navier–Stokes equations
• 9.22.2010	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part III (lecture 2)
• 9.15.2010	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part III (lecture 1)
• 9.9.2009	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part II
• 3.25.2009	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Forchheimer equations in porous media - Part I
• 9.24.2008	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Navier-Stokes equations in thin domains with Navier friction bound- ary conditions. Part II
• 9.17.2008	Applied Mathematics Seminars Department of Mathematics and Statistics, Texas Tech University TALK: Navier-Stokes equations in thin domains with Navier friction bound- ary conditions. Part I,
• 2.11.2008	Colloquium School of Mathematical and Statistical Sciences, Arizona State University TALK: Some problems in geophysical fluid dynamics,
• 2.5.2008	Colloquium Department of Mathematics and Statistics, Texas Tech University TALK: Some problems in geophysical fluid dynamics,
• 10.17.2007	Institute Seminar Department of Mathematics, Indiana University INVITED TALK: Global strong solutions of equations in geophysical fluid dynamics
• 4.9.2007	PDE and Dynamical Systems Seminars School of Mathematics, University of Minnesota TALK: Navier–Stokes equations with Navier boundary conditions in nearly flat domains

• 4.4.2007	PDE Seminar School of Mathematics, University of Minnesota TALK: The normal form of the Navier–Stokes equations in suitable normed spaces
• 11.27.2006	PDE and Dynamical Systems Seminars School of Mathematics, University of Minnesota TALK: On the Stokes and Laplacian operators in Navier–Stokes equations
• 12.8.2005	Colloquium Department of Mathematics, University of Nevada, Reno INVITED TALK: Asymptotic behavior of statistical solutions to the Navier– Stokes equations
• 10.26.2005	PDE Seminar School of Mathematics, University of Minnesota TALK: Normalization maps and statistical solutions in Navier–Stokes equa- tions
• 10.3.2005	Dynamical Systems Seminar School of Mathematics, University of Minnesota TALK: A normal form for the Navier–Stokes equations
• 4.27.2005	PDE and Dynamical System Seminars School of Mathematics, University of Minnesota INVITED TALK: Asymptotic analysis of the helicity in 3D periodic Navier– Stokes equations
• 2.14.2005	Applied Mathematics Seminar Department of Mathematics, Texas A&M University TALK: On the solutions to the normal form of the Navier–Stokes Equations
• 3.2004	Applied Mathematics Seminar Department of Mathematics, Texas A&M University TALK: On the helicity in 3D Navier–Stokes equations
Organizing Work	

• 7.2024	Co-organizer of minisymposium (3 sessions) Recent developments in the study of fluids (MS53, MS61, MS69) 2024 SIAM Annual Meeting Spokane, Washington July 8-12, 2024
• 7.2016	Co-organizer of special session (SS108) New Developments in Porous Media The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, July 1-5, 2016
• 12.2015	Co-organizer of Mini-symposium Dynamics of Partial Differential Equa- tions SIAM Conference on Analysis of Partial Differential Equations Scottsdale, Arizona, December 7-10, 2015
• 4.2014	Co-organizer of Special Session: Navier-Stokes Equations and Fluid Dy- namics AMS 2014 Spring Central Sectional Meeting Texas Tech University, Lubbock, TX, April 11-13, 2014

• 12.2013	Co-organizer of Mini-Symposium: <i>Elliptic and Parabolic Equations with</i> <i>Nonstandard Nonlinearity</i> SIAM conference on Analysis of Partial Differential Equations Lake Buena Vista, Florida, December 7-10, 2013
• 10.2013	Co-organizer of <i>The 13th Red Raider Mini-Symposium</i> , Department of Mathematics and Statistics, Texas Tech University, October 25-26, 2013
• 6.2013	Co-organizer of Mini-Symposium: Dynamics of Non-linear Flows in Porous Media: Analysis and Applications SIAM Conference on Mathematical and Computational Issues in the Geo- sciences University of Padova, Italy, June 17-20, 2013
• 11.2011	Co-organizer of Mini-Symposium: Partial Differential Equations for Non- linear Processes in Porous Media SIAM Conference on Analysis of Partial Differential Equations San Diego, CA, 11.November 14-17, 2011
• 10.2009	Co-organizer of <i>The 9th Red Raider Mini-Symposium</i> , Department of Mathematics and Statistics, Texas Tech University, October 29-31, 2009

Conferences and Workshops Attended

• 4.2023	Workshop: Degeneracy of Algebraic Points (Diophantine Geometry Pro- gram) Mathematical Sciences Research Institute (MSRI) Berkeley, CA, April 24–28, 2023
• 10.2009	AMS 2009 Fall Central Section Meeting Waco, TX, October 16-18, 2009
• 7.2009	Summer Program: Nonlinear Conservation Laws and Applications Institute for Mathematics and Applications Minneapolis, MN, July 13-31, 2009

Visits

• 3.	2023	Department	of Mathematics,	Indiana	University

• 6.2014 Mathematics Institue, Uninersity of Warwick

Editorialship

 \bullet 5.2022 – present Member of the editorial board of Sakarya University Journal of Science (SAUJS)

Teaching Experience

• Texas Tech University, Lubbock, Texas

Spring 2025	MATH3351-001. Higher Mathematics for Engineers and Scientists II
Spring 2025	MATH3354-001. Differential Equations I
Fall 2024	MATH4000-004 (4351). Advanced Calculus II
Fall 2024	MATH3351-001. Higher Mathematics for Engineers and Scientists II
Spring 2024	MATH5099-007. Partial Differential Equations II
Spring 2024	MATH4354-001. Differential equations II
Fall 2023	MATH5332-001. Partial Differential Equations I
Fall 2023	MATH4354-001. Differential equations II

Fall 9099	MATH 5000-007 Methods in Partial Differential Equation
Samina 0000	MATH2250 012 Higher Methometics for Engineers and Scientists I
Spring 2022	MATH2250 111 Higher Mathematics for Engineers and Scientists I
Spring ZUZZ	MATH2450 011 Coloring III with Applications
Fall 2021	MATH2450-011. Calculus III with Applications
Fall 2021	MATH2450-013. Calculus III with Applications
Spring 2021	MATH2450-002. Calculus III with Applications
Spring 2021	MATH2450-D01. Calculus III with Applications
Fall 2020	MATH3351-001. Higher Mathematics for Engineers and Scientists II
Fall 2020	MATH2450-011. Calculus III with Applications
Spring 2020	MATH3350-022. Higher Mathematics for Engineers and Scientists I
Spring 2020	MATH3350-021. Higher Mathematics for Engineers and Scientists I
Fall 2019	MATH4351-001. Advanced Calculus II
Fall 2019	MATH2450-022. Calculus III With Applications
Spring 2019	MATH5332-001. Partial Differential Équations I.
Spring 2019	MATH4354-002. Differential equations II
Fall 2018	MATH3354-002. Differential equations I
Fall 2018	MATH3351-002 Higher Mathematics for Engineers and Scientists II
Spring 2018	MATH3354-001 Differential equations I
Spring 2010	MATH4354-002 Differential equations I
Spring 2010 Spring 2017	MATH3350-012 Higher Mathematics for Engineers and Scientists I
Spring 2017 Spring 2017	MATH3351-001 Higher Mathematics for Engineers and Scientists I
Summer II 0016	MATH3350 202 Higher Mathematics for Engineers and Scientists I
Summer 11 2010	MATH2251 002 Higher Mathematics for Engineers and Scientists I
Spring 2010	MATH5551-002. Higher Mathematics for Engineers and Scientists II
Spring 2010 E-11 0015	MATH251 004 Uinhan Mathamatica for Engineering and Cointiste U
Fall 2015	MATH3351-004. Higher Mathematics for Engineers and Scientists II
Fall 2015	MATH3350-016. Higher Mathematics for Engineers and Scientists I
Spring 2015	MATH5332-001. Partial Differential Equations I
Spring 2015	MATH4351-001. Advanced Calculus II
Fall 2014	MATH4350-002. Advanced Calculus I
Fall 2014	MATH1320-030. College Algebra
Spring 2014	MATH3310-002. Introduction to Mathematical Reasoning and Proof
Spring 2014	MATH2360-008. Linear Algebra
Fall 2013	MATH2360-001. Linear Algebra
Fall 2013	MATH1451-H01. Calculus I With Applications-Honors
Spring 2013	MATH 5099-011. Partial Differential Equations III
Spring 2013	MATH4354. Differential Equations II
Fall 2012	MATH5333. Partial Differential Equations II
Fall 2012	MATH2450. Calculus III with Applications
Spring 2012	MATH5332. Partial Differential Equations I
Spring 2012	MATH3351. Higher Mathematics for Engineers and Scientists II
Fall 2011	MATH3350-010. Higher Mathematics for Engineers and Scientists I
Fall 2011	MATH3350-012. Higher Mathematics for Engineers and Scientists I
Spring 2011	MATH5341, Functional Analysis II, Section 001
Spring 2011	MATH5332 Partial Differential Equations
Fall 9010	MATH5340 Functional Analysis I
Fall 2010	MATH2360 Linear Algebra
Spring 2010	MATH4354 Differential Equations II
Spring 2010	MATH1352 Colculus II
Fall 0000	MATH2354 Differential Equations I
Full 2009 Fall 0000	MATH251 Colorbus I
Tull 2009 Spring 2000	MATH2250 Higher Mathematics for Engineers and Scientists I
Spring 2009	MATH2250 Higher Mathematics for Engineers and Scientists I
rall 2008	MATH5550. Higher Mathematics for Engineers and Scientists I

• University of Minnesota, Minneapolis, Minnesota

Spring 2008	MATH 1142 Short Calculus
Spring 2008	MATH 1155 Intensive PreCalculus
Fall 2007	MATH 5535 Dynamical Systems and Chaos
Spring 2007	MATH 1031 College Algebra and Probability

Fall 2006	MATH 4606 Advanced Calculus
Spring 2006	MATH 1151 Pre-Calculus II
Fall 2005	MATH 2263 Multivariable Calculus

- Texas A&M University, College Station, Texas
 Fall 2004 M142 Business Mathematics II
 Summer 2004 M152 Engineering Mathematics II (assistant)
- Indiana University, Bloomington, Indiana

Spring 2002	M025 Pre-Calculus
Fall 2001	M014 Basic Algebra

- Arizona State University, Tempe, Arizona
 1998–2000 Teaching Assistant
 1999 International Teaching Assistant Seminar
- National University, Hochiminh City 1997–1998 Instructor 1996 Teaching Assistant

Students Advised

• 8.2023	Rahnuma Islam, Ph.D. (co-chair of Ph.D. Dissertation Committee)
• 8.2023	Isankaupul Garli Hevage, Ph.D. (co-chair of Ph.D. Dissertation Committee)
• 8.2016	Emine Celik, Ph.D.
• 8.2014	Thinh Kieu, Ph.D. (co-advisor)

Postdoctorates hosted

- 1.2019 8.2019 Dr. Phuong Nguyen
- 8.2016 8.2019 Dr. Dat Cao

Defense Committee Member

• 6.2023	Mohammad Mahabubur Rahman, Ph.D. Dissertation Committee Member
• 11.2022	Pham Minh Huy Huynh, Ph. D. Defense Committee Member, Universität Klagenfurt, Austria
• 2020	Rahnuma Islam, Master's Thesis Committee Member
• 2019	Thakshila Gunasingha, Master's Thesis Committee Member
• 2014	Anna Krylova, Master's Thesis Committee Member
• 2010 - 2013	Lidia Bloshanskaya, Ph.D. Dissertation Committee Member
• 2012	Pooya Aavani, Master's Thesis Committee Member
• 5.2011	Jedidiah Gohlke, Master's Thesis Committee Member

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Service

•	University	
	2010 - present	Member of Graduate Faculty, Graduate School
	Fall 2013, 2018, Aug. 2023	Faculty representative at the Graduation Commencement
	6.14.2013	Dean's representative, Ph.D.'s defense, David Kimberly, Environmental Toxicology
	3.25.2013	Dean's representative, Ph.D.'s defense, Taskin Karim, Chemical Engineering
	3.22.2013	Dean's representative, Ph.D.'s defense, Vance Ginn, Economics
	6.24.2011	Dean's representative, Ph.D.'s defense, Guangqiu Qin, Environmental Toxicology
	6.1.2011	Dean's representative, Ph.D.'s defense, Patrick Mclaurin, Chemistry
•	Department	
•	9.2023 – present	Co-organizer of Analysis Seminars
	9.2023 – present	State Employee Charitable Campaign (SECC) coordinator for Department of Mathematics and Statistics
	1.2017 - 5.2021	Co-organizer of Analysis Seminars (except on-leave Fall 2017)
	4.2015 - present	Peer teaching evaluations for fellow faculty
	2011 - present	Member of Examination Committee for Preliminary Examination in PDEs
	2009 - present	Teaching evaluations for (graduate) teaching assistants
	9.2020 - 5.2021	Co-organizer of Pure Mathematics Colloquium: Current Advances in Mathematics
	10.2019 - 5.2022	Co-advisor of students' Actuarial Science Group
	9.2018 - 12.2020	State Employee Charitable Campaign (SECC) coordinator for Department of Mathematics and Statistics
	Fall 2014-Spring 2015	Member of Hiring Subcommittee: Complex Analysis
	Spring 2013	Member of Travel Policy Committee
	9.2012 - 9.2013	Member of Graduate Committee
	12.2009	Substituting member in the Committee, Master's thesis defense, James Woodley, Mathematics
	8.2008 - 5.2016	Co-organizer of Applied Mathematics Seminars

• Professional

Expert Reviewer	Ph.D. Dissertation Reviewer for Pham Minh Huy Huynh, Universität Klagenfurt, Austria, 2022
Referee	Acta Applicandae Mathematicae Asymptotic Analysis Bulletin des sciences mathématique Canadian Journal of Mathematics Communications on Pure and Applied Analysis Discrete and Continuous Dynamical Systems Electronic Journal of Differential Equations Hacettepe Journal of Mathematics and Statistics Indiana University Mathematics Journal Journal of Applied Analysis and Computation Journal of Differential Equations Journal of Differential Equations Journal of Dynamics and Differential Equations Journal of Mathematical Analysis and Applications Journal of Mathematical Fluid Mechanics Journal of Mathematical Fluid Mechanics Journal of Mathematical Physics Multiscale Modeling and Simulation (SIAM Interdisciplinary Journal) Nonlinearity Nonlinear Analysis Series A: Theory, Methods and Applications Numerical Methods for Partial Differential Equations Qualitative Theory of Dynamical Systems Studies in Applied Mathematics

Awards

•	2005	L. F. Guseman Award, Texas A&M University
•	2002 - 2005	Departmental Graduate Fellowship, Texas A&M University
•	2002	AUF Fellowship, Texas A&M University
•	2001	James P. Williams Memorial Award, Indiana University
•	2001	Eberhard E. Hopf Fellowship, Indiana University
•	1997	Outstanding Student Award, National University, Hochiminh

Other information

- Citizenship U. S. A.
- Languages English, Vietnamese

City