

# Curriculum Vitae

Álvaro Pámpano Llarena

(April 2025)

Assistant Professor  
Department of Mathematics,  
Texas Tech University,  
Lubbock, Texas, USA.  
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Website: <https://www.math.ttu.edu/~apampano>

## Positions

- **Assistant Professor**  
Texas Tech University (TTU)  
Lubbock, Texas, USA  
September 1, 2022 – Present
- **Postdoctoral Teaching Scholar**  
Texas Tech University (TTU)  
Lubbock, Texas, USA  
September 1, 2020 – August 31, 2022
- **Postdoctoral Researcher**  
University of the Basque Country (UPV/EHU) and Idaho State University (ISU)  
Pocatello, Idaho, USA  
January 15, 2019 – August 31, 2020
- **Predoctoral Researcher**  
University of the Basque Country (UPV/EHU)  
Bilbao, Spain  
January 29, 2016 – October 25, 2018

## Education

- **2015-2018:** International PhD. in Mathematics (Area: Differential Geometry)  
University of the Basque Country (UPV/EHU)  
Title: *Invariant Surfaces with Generalized Elastic Profile Curves*

(Available at <http://hdl.handle.net/10810/32023>)

Advisors: Óscar J. Garay and Josu Arroyo

Result: Sobresaliente Cum Laude

- **2014-2015:** Master in Modeling and Mathematical Research, Statistics and Computation  
University of the Basque Country (UPV/EHU), University of Zaragoza and University of Oviedo  
End of Master Project Title: *Teorema Fundamental de Superficies y Aplicaciones*  
(Translation: *Fundamental Theorem of Surfaces and Applications.*)  
Advisor: Óscar J. Garay  
Result: Matricula de Honor (100%)
- **2010-2014:** Degree in Mathematics  
University of the Basque Country (UPV/EHU)  
End of Degree Project Title: *Geodésicas en Variedades de Riemann*  
(Translation: *Geodesics in Riemannian Manifolds.*)  
Advisors: Jose J. Mencía and Óscar J. Garay  
Result: Matricula de Honor (96%)

## Languages

(The Common European Framework of Reference for Languages, CEFR, describes language ability on a six-point scale, from A1 for beginners to C2 for those who have mastered a language.)

- **Spanish.** Native Speaker.
- **English.** Certificate in Proficiency English by Cambridge University, 2016  
(C2 in the Common European Framework of Reference for Languages, CEFR)
- **Basque.** C1 in the Common European Framework of Reference for Languages, 2017

## Awards/Grants/Honors

- Professing Excellence Teaching Award  
Texas Tech University (TTU)  
April 2025
- Excellence in Research Faculty Award  
Department of Mathematics and Statistics (TTU)  
April 2024
- Red Raider Mini-Symposium on Differential Geometry, Integrable Systems, and Applications  
National Science Foundation (NSF)  
Amount: **\$17,100.00**  
April 2023
- Extraordinary Prize of PhD  
University of the Basque Country (UPV/EHU)  
October 2022

- AMS-Simons Travel Grant  
American Mathematical Society - Simons Foundation  
Amount: **\$5,000.00**  
July 1, 2021 – June 30, 2024
- Postdoctoral Grant  
Basque Government  
Amount: **28.280,00 €** (*per year*)  
January 15, 2019 – August 31, 2020
- Geometrías Especiales y Problemas Variacionales Geométricos  
MINECO-FEDER (Spanish Government), PGC2018-098409-B-100  
Amount: **19.481,00 €**  
January 1, 2019 – December 31, 2021  
Principal Researcher: M<sup>a</sup> Luisa Fernández
- Predoctoral Stay Grant  
Basque Government  
Amount: **2.875,00 €**  
April 1, 2018 – July 1, 2018
- Predoctoral Grant  
Basque Government  
Amount: **14.545,80 €** (*per year*)  
January 29, 2016 – October 25, 2018
- Geometrías Especiales y Problemas Variacionales Geométricos  
Basque Government, IT1024-16  
Amount: **113.956,00 €**  
January 1, 2016 – December 31, 2021  
Principal Researcher: M<sup>a</sup> Luisa Fernández
- Grant from the Unit of Formation and Research  
University of the Basque Country (UPV/EHU)  
Amount: **800,00 €**  
July 1, 2015 – August 31, 2015
- Geometrías Especiales y Problemas Variacionales Geométricos  
MINECO-FEDER (Spanish Government), MTM2014-54804-P  
Amount: **44.165,80 €**  
January 1, 2015 – December 31, 2018  
Principal Researchers: M<sup>a</sup> Luisa Fernández and Óscar J. Garay
- Grant from the Unit of Formation and Research  
University of the Basque Country (UPV/EHU)  
Amount: **800,00 €**  
July 1, 2014 – August 31, 2014
- Best Qualifications of the Degree in Mathematics  
University of the Basque Country (UPV/EHU)  
July 2014

- Collaboration Grant  
Basque Government  
Amount: **2.800,00 €**  
January 1, 2014 – August 1, 2014

## Publications

(All authors are ordered alphabetically.)

1. B. Palmer and A. Pámpano, Hyperbolic Geometry and the Helfrich Functional, *submitted*.  
(Available at ArXiv: [arXiv: \[math.DG\]](#))
2. R. López, B. Palmer and A. Pámpano, Axially Symmetric Helfrich Spheres, *submitted*.  
(Available at ArXiv: [arXiv:2501.15668 \[math.DG\]](#))
3. A. Pámpano, Characterization of Rotational Biconservative Hypersurfaces, *to appear in Contemp. Math.*
4. E. Musso and A. Pámpano, Geometric Transformations on Null Curves in the Anti-de Sitter 3-Space, *SIGMA*. **21-9** (2025), 18.  
(Available at ArXiv: [arXiv: 2312.10765 \[math.DG\]](#))
5. A. Pámpano, M. Samarakkody and H. Tran, Closed  $p$ -Elastic Curves in Spheres of  $\mathbb{L}^3$ , *J. Math. Anal. Appl.* **545-2** (2025), 129147.  
(Available at ArXiv: [arXiv: 2404.08593 \[math.DG\]](#))
6. E. Musso and A. Pámpano, Integrable Flows on Null Curves in the Anti-de Sitter 3-Space, *Nonlinearity* **37** (2024), 115015.  
(Available at ArXiv: [arXiv: 2311.11137 \[math.DG\]](#))
7. B. Palmer and A. Pámpano, Stability of Membranes, *J. Geom. Anal.* **34** (2024), 328.  
(Available at ArXiv: [arXiv: 2401.05285 \[math.DG\]](#))
8. A. Pámpano, Generalized Elastic Translating Solitons, *Proc. Am. Math. Soc.* **152-4** (2024), 1743–1753.  
(Available at ArXiv: [arXiv: 2211.04603 \[math.DG\]](#))
9. B. Palmer and A. Pámpano, Symmetry Breaking Bifurcation of Membranes with Boundary, *Nonlinear Anal.* **238** (2024), 113393.  
(Available at ArXiv: [arXiv: 2206.10971 \[math.DG\]](#))
10. S. Montaldo and A. Pámpano, On the Existence of Closed Biconservative Surfaces in Space Forms, *Commun. Anal. Geom.* **31-2** (2023), 291–320.  
(Available at ArXiv: [arXiv: 2009.03233 \[math.DG\]](#))
11. A. Gruber, A. Pámpano and M. Toda, Instability of Closed  $p$ -Elastic Curves in  $\mathbb{S}^2$ , *Anal. Appl.* **21-6** (2023), 1533–1559.  
(Available at ArXiv: [arXiv: 2209.11597 \[math.DG\]](#))
12. E. Musso and A. Pámpano, Closed  $1/2$ -Elasticae in the Hyperbolic Plane, *J. Math. Anal. Appl.* **527-1** (2023), 127388.  
(Available at ArXiv: [arXiv: 2302.03378 \[math.DG\]](#))
13. A. Gruber, A. Pámpano and M. Toda, On  $p$ -Willmore Disks with Elastic Boundaries, *Differential Geom. Appl.* **86** (2023), 101971.  
(Available at ArXiv: [arXiv: 2110.14778 \[math.DG\]](#))
14. R. López and A. Pámpano, A Relation Between Cylindrical Critical Points of Willmore-Type Energies, Weighted Areas and Vertical Potential Energies, *J. Geom. Phys.* **185** (2023), 104731.  
(Available at ArXiv: [arXiv: 2206.01070 \[math.DG\]](#))

15. E. Musso and A. Pámpano, Closed 1/2-Elasticae in the 2-Sphere, *J. Nonlinear Sci.* **33** (2023), 3.  
(Available at ArXiv: [arXiv: 2204.01096 \[math.DG\]](#))
16. S. Montaldo, C. Oniciuc and A. Pámpano, Closed Biconservative Hypersurfaces in Spheres, *J. Math. Anal. Appl.* **518-1** (2023), 126697.  
(Available at ArXiv: [arXiv: 2201.11169 \[math.DG\]](#))
17. A. Pámpano, Minimal Surfaces Bounded By Elastic Curves, *AIP Conf. Proc.* **2425** (2022), 330002.
18. B. Palmer and A. Pámpano, The Euler-Helfrich Functional, *Calc. Var. Partial Differ. Equ.* **61** (2022), 79.  
(Available at ArXiv: [arXiv: 2107.12500 \[math.DG\]](#))
19. R. López and A. Pámpano, Stationary Soap Films with Vertical Potentials, *Nonlinear Anal.* **215** (2022), 112661.  
(Available at ArXiv: [arXiv: 2111.03293 \[math.DG\]](#))
20. S. Montaldo and A. Pámpano, Triharmonic Curves in 3-Dimensional Homogeneous Spaces, *Mediterr. J. Math.* **18-5** (2021), 198.  
(Available at ArXiv: [arXiv: 2008.10571 \[math.DG\]](#))
21. S. Montaldo and A. Pámpano, Totally Biharmonic Hypersurfaces in Space Forms and 3-Dimensional BCV Spaces, *Int. J. Math.* **32-4** (2021), 2150025.  
(Available at ArXiv: [arXiv: 1911.02625 \[math.DG\]](#))
22. A. Gruber, A. Pámpano and M. Toda, Regarding the Euler-Plateau Problem with Elastic Modulus, *Ann. Mat. Pura Appl.* **200-5** (2021), 2263–2283.  
(Available at ArXiv: [arXiv: 2010.00149 \[math.DG\]](#))
23. B. Palmer and A. Pámpano, Minimizing Configurations for Elastic Surface Energies with Elastic Boundaries, *J. Nonlinear Sci.* **31** (2021), 23.  
(Available at ArXiv: [arXiv: 2010.16378 \[math.DG\]](#))
24. B. Palmer and A. Pámpano, Minimal Surfaces with Elastic and Partially Elastic Boundary, *Proc. A Royal Soc. Edinburgh* **151-4** (2021), 1225–1246.
25. A. Pámpano, Willmore-Like Energies and Elastic Curves with Potential, *Geometry, Integrability and Quantization XXI*, Bulgar. Acad. Sci., Sofia 2020, 232–241.
26. A. Pámpano, Critical Tori for Mean Curvature Energies in Killing Submersions, *Nonlinear Anal.* **200** (2020), 112092.  
(Available at ArXiv: [arXiv: 2109.10315 \[math.DG\]](#))
27. R. López and A. Pámpano, Classification of Rotational Surfaces with Constant Skew Curvature in 3-Space Forms, *J. Math. Anal. Appl.* **489-2** (2020), 124195.  
(Available at ArXiv: [arXiv: 2005.07671 \[math.DG\]](#))
28. B. Palmer and A. Pámpano, Classification of Planar Anisotropic Elasticae, *Growth and Form* **1-1** (2020), 33–40.
29. B. Palmer and A. Pámpano, Anisotropic Bending Energies of Curves, *Ann. Glob. Anal. Geom.* **57-2** (2020), 257–287.
30. R. López and A. Pámpano, Classification of Rotational Surfaces in Euclidean Space Satisfying a Linear Relation Between their Principal Curvatures, *Math. Nach.* **293-4** (2020), 735–753.  
(Available at ArXiv: [arXiv: 1808.07566 \[math.DG\]](#))
31. R. López and A. Pámpano, Rotational Surfaces of Constant Astigmatism in Space Forms, *J. Math. Anal. Appl.* **483-1** (2020), 123602.  
(Available at ArXiv: [arXiv: 2005.07689 \[math.DG\]](#))

32. A. Pámpano, A Variational Characterization of Profile Curves of Invariant Linear Weingarten Surfaces, *Differential Geom. Appl.* **68** (2020), 101564.
33. J. Arroyo, O. J. Garay and A. Pámpano, Boundary Value Problems for Euler-Bernoulli Planar Elastica. A Solution Construction Procedure, *J. Elas.* **139-2** (2020), 359–388.
34. A. Pámpano, Visual Curve Completion and Rotational Surfaces of Constant Negative Curvature, *to appear in J. Math. Sci.* (2019).  
(Available at ArXiv: [arXiv: 1907.05696 \[math.DG\]](https://arxiv.org/abs/1907.05696))
35. O. J. Garay and A. Pámpano, A Note on p-Elasticae and the Generalized EMP Equation, *Preprint* (2019).
36. J. Arroyo, O. J. Garay and A. Pámpano, Delaunay Surfaces in  $\mathbb{S}^3(\rho)$ , *Filomat* **33-4** (2019), 1191–1200.
37. A. Pámpano, Planar p-Elasticae and Rotational Linear Weingarten Surfaces, *Geometry, Integrability and Quantization XX*, Bulgar. Acad. Sci., Sofia 2019, 227–238.
38. M. Barros, O. J. Garay and A. Pámpano, Willmore-Like Tori in Killing Submersions, *Adv. Math. Phys.* **2018** (2018).
39. J. Arroyo, O. J. Garay and A. Pámpano, Constant Mean Curvature Invariant Surfaces and Extremals of Curvature Energies, *J. Math. Anal. Appl.* **462-2** (2018), 1644–1668.
40. A. Pámpano, Binormal Evolution of Blaschke’s Curvature Energy Extremals in the Minkowski 3-Space, *Differential Geometry in Lorentz-Minkowski Space*, Ed. Univ. Granada, Granada, (2017), 115–123.
41. J. Arroyo, O. J. Garay and A. Pámpano, Binormal Motion of Curves with Constant Torsion in 3-Spaces, *Adv. Math. Phys.* **2017** (2017).
42. J. Arroyo, O. J. Garay and A. Pámpano, Curvature-Dependent Energies Minimizers and Visual Curve Completion, *Nonlinear Dyn.* **86** (2016), 1137–1156.
43. O. J. Garay and A. Pámpano, Binormal Evolution of Curves with Prescribed Velocity, *WSEAS Trans. Fluid Mech.* **11** (2016).
44. J. Arroyo, O. J. Garay and A. Pámpano, Extremal Curves of a Total Curvature Type Energy, *Nolasc 15* **55**, WSEAS Press (2015), 103–112.
45. O. J. Garay, A. Pámpano and C. Woo, Hypersurface Constrained Elasticae in Lorentzian Space Forms, *Adv. Math. Phys.* **2015** (2015).

## Conferences

- 9th European Congress of Mathematics  
Sevilla (Spain)  
July 15-19, 2024  
Contribution: Invited Talk  
Title: *Binormal Evolution of Generalized Elastic Curves*
- AMS Spring Western Sectional Meeting  
San Francisco (USA)  
May 4-5, 2024  
Contribution: Invited Talk  
Title: *Variational Theory of Membranes*
- AMS Fall Central Sectional Meeting  
El Paso (USA)  
September 17-18, 2022  
Contribution: Invited Talk  
Title: *Blaschke’s Variational Problem*

- 4th Geometric Analysis Festivals  
Online Talk Session  
October, 2021  
Contribution: Talk  
Title: *Boundary Value Problems for the Helfrich Energy*
- Differential Geometry Workshop  
Vienna (Austria)-Virtually  
September 2, 2021  
Contribution: Invited Talk  
Title: *A New Characterization of Biconservative Surfaces in 3-Space Forms*
- Young Researchers in PDEs and Geometric Analysis  
Online Poster Session  
April 8, 2021  
Contribution: Poster  
Title: *Ground State Equilibria for the Helfrich Energy with Elastic Boundary*
- ICNAAM 2020 (Elastic Curves and Surfaces with Applications)  
Rhodes (Greece)-Virtually  
September 17-23, 2020  
Contribution: Invited Talk  
Title: *Minimal Surfaces Bounded by Elastic Curves*
- AMS Fall Central Sectional Meeting  
El Paso (USA)-Virtually  
September 12-14, 2020  
Contribution: Invited Talk  
Title: *Construction of Rotational Constant Skew Curvature Surfaces in Space Forms*
- Texas Geometry and Topology Conference (Texas Tech University)  
Lubbock (USA)-Virtually  
April 24-26, 2020  
Contribution: Invited Talk  
Title: *Invariant Surfaces in  $\mathbb{S}^3$  Based on Generalized Elastic Curves*
- V Conference of Young Researchers of the RSME (Spanish Royal Society of Mathematics)  
Castellón (Spain)  
January 27-31, 2020  
Contribution: Invited Talk  
Title: *Varillas Elásticas Anisotrópicas*  
(Translation: *Anisotropic Elastic Rods.*)
- International Conference on Geometry, Differential Equations and Analysis  
Kharkiv (Ukraine)  
June 17-21, 2019  
Contribution: Talk  
Title: *Solutions of the Ermakov-Milne-Pinney Equation and Invariant Constant Mean Curvature Surfaces*
- XX1st International Conference on Geometry, Integrability and Quantization  
Varna (Bulgaria)  
June 3-8, 2019  
Contribution: Talk  
Title: *Willmore-Like Energies and Elastic Curves with Potential*
- Variational Problems and the Geometry of Submanifolds (CIRM)  
Marseille (France)  
May 27-31, 2019

- 23rd International Summer School on Global Analysis and its Applications  
Brasov (Romania)  
August 20-24, 2018  
Contribution: Talk  
Title: *Criticality of Sub-Riemannian Geodesics Projections and Applications*
- Conference/School RIEMain in Contact  
Cagliari (Italy)  
June 18-22, 2018
- XXth International Conference on Geometry, Integrability and Quantization  
Varna (Bulgaria)  
June 2-7, 2018  
Contribution: Talk  
Title: *Planar p-Elasticae and Rotational Linear Weingarten Surfaces*
- XXIV (National) Meeting of Topology  
Bilbao (Spain)  
October 20-21, 2017  
Contribution: Poster  
Title: *Toros de Curvatura Media Constante Embebidos en  $\mathbb{S}^3$*   
(Translation: *Constant Mean Curvature Tori Embedded in  $\mathbb{S}^3$ .*)
- VI (National) Meeting of Young Topologists  
Bilbao (Spain)  
October 18-19, 2017  
Contribution: Talk  
Title: *Superficies de Revolución Compactas con Curvatura Media Constante en  $\mathbb{S}^3$*   
(Translation: *Compact Rotational Surfaces with Constant Mean Curvature in  $\mathbb{S}^3$ .*)
- 22nd International Summer School on Global Analysis and its Applications  
Krakow (Poland)  
August 21-25, 2017  
Contribution: Talk  
Title: *On Extremals of Curvature Energies used in Visual Curve Completion*
- Summer School on Geometric Analysis (Fields Institute)  
Toronto (Canada)  
July 10-21, 2017
- Introduction to Geometric Analysis: The Atiyah-Singer Index Theorem (BCAM-UPV/EHU Graduate School)  
Bilbao (Spain)  
June 5-23, 2017
- Young Researcher Workshop on Differential Geometry in Minkowski Space  
Granada (Spain)  
April 17-20, 2017  
Contribution: Talk  
Title: *Constant Mean Curvature Invariant Surfaces in  $\mathbb{L}^3$  and a Blaschke's Variational Problem*
- Topology School of Low Dimension  
Zaragoza (Spain)  
January 18-27, 2017  
Contribution: Talk  
Title: *Traveling Wave Solutions of the Codazzi-Betchov-Da Rios Equations*



- VIII International Meeting on Lorentzian Geometry (Geloma'16)  
Málaga (Spain)  
September 20-23, 2016  
Contribution: Poster  
Title: *Elastica Constrained Problem in Hypersurfaces of Lorentzian Space Forms*

## Research Visits

- Idaho State University (USA)  
Collaborating with: Prof. Bennett Palmer  
March 15-18, 2025
- Idaho State University (USA)  
Collaborating with: Prof. Bennett Palmer  
December 12-15, 2024
- Politecnico di Torino (Italy)  
Collaborating with: Prof. Emilio Musso  
February 4-11, 2023
- University of Granada (Spain)  
Collaborating with: Prof. Rafael López  
November 29, 2021 – December 6, 2021
- Idaho State University (USA)  
Collaborating with: Prof. Bennett Palmer  
November 22-28, 2021
- University of the Basque Country (Spain)  
Collaborating with: Prof. Josu Arroyo  
June 13, 2021 – July 6, 2021
- Politecnico di Torino (Italy)  
Collaborating with: Prof. Emilio Musso  
January 19-25, 2020
- Postdoctoral Stay at Idaho State University (USA)  
Collaborating with: Prof. Bennett Palmer  
February 20, 2019 – August 31, 2020
- Predoctoral Stay at University of Cagliari (Italy)  
Collaborating with: Prof. Stefano Montaldo  
April 1, 2018 – July 1, 2018
- University of Granada (Spain)  
Collaborating with: Prof. Rafael López  
November 20-25, 2017

## Teaching and Seminars

- Geometry, PDE and Mathematical Physics Seminar (Math 5101)  
Texas Tech University, February 11, 2025  
Title: *The Reduced Membrane Equation*

- Calculus III with Applications (Math 2450-022)  
Texas Tech University, Spring 2025  
Face to Face
- Calculus III with Applications (Math 2450-121)  
Texas Tech University, Fall 2024  
Face to Face
- Calculus III with Applications (Math 2450-022)  
Texas Tech University, Fall 2024  
Face to Face
- Linear Algebra (Math 2360-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2024  
Face to Face
- Mathematical Statistics for Engineers and Scientists I (Math 3342-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2024  
Face to Face
- Riemannian Geometry (Math 6331-001)  
Texas Tech University, Spring 2024  
Face to Face
- Math Circle at Texas Tech University  
Lubbock, April 2024
- Calculus III with Applications (Math 2450-113)  
Texas Tech University, Fall 2023  
Face to Face
- Probability, Differential Geometry and Mathematical Physics Seminar (Math 5101)  
Texas Tech University, November 15, 2023  
Title: *On Some Open Problems Related to  $p$ -Elastic Curves*
- Math Circle at Texas Tech University  
Lubbock, October 2023
- Linear Algebra (Math 2360-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2023  
Face to Face
- Mathematical Statistics for Engineers and Scientists I (Math 3342-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2023  
Face to Face
- Emmy Noether Day  
Texas Tech University, May 11, 2023  
Title: *Germain's Variational Problems and Noether's Symmetries*
- Math Circle at Texas Tech University  
Lubbock, March 2023
- Calculus III with Applications (Math 2450-H01)  
Texas Tech University, Fall 2022  
Face to Face
- Math Circle at Texas Tech University  
Lubbock, November 2022

- Linear Algebra (Math 2360-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2022  
Face to Face
- Mathematical Statistics for Engineers and Scientists I (Math 3342-260)  
Texas Tech University, Seville (Study Abroad Program), Summer 2022  
Face to Face
- Calculus III with Applications (Math 2450-022)  
Texas Tech University, Spring 2022  
Face to Face
- Calculus III with Applications (Math 2450-002)  
Texas Tech University, Spring 2022  
Face to Face
- Geometry Seminar  
California State University Fullerton, October 29, 2021  
Title: *A New Variational Characterization of Invariant Constant Mean Curvature Surfaces*
- Probability, Differential Geometry and Mathematical Physics Seminar (Math 5101)  
Texas Tech University, September 8, 2021  
Title: *Geometric Variational Problems for Curves and Surfaces*
- Calculus III with Applications (Math 2450-113)  
Texas Tech University, Fall 2021  
Face to Face
- Calculus III with Applications (Math 2450-015)  
Texas Tech University, Fall 2021  
Face to Face
- Probability, Differential Geometry and Mathematical Physics Seminar (Math 5101)  
Texas Tech University, March 17, 2021  
Title: *The Euler-Helfrich Variational Problem*
- Calculus III with Applications (Math 2450-021)  
Texas Tech University, Spring 2021  
Hybrid
- SING Seminar  
University “Al.I.Cuza” of Iasi, February 3, 2021  
Title: *Construction of Closed Biconservative Surfaces*
- Elasticity Seminar (Math 5101-011)  
Texas Tech University, October 14, 2020  
Title: *The Euler-Plateau Problem with Elastic Modulus*
- Elasticity Seminar (Math 5101-011)  
Texas Tech University, September 16, 2020  
Title: *Minimal Surfaces Spanning a Twisted Elastic Ribbon*
- Calculus III with Applications (Math 2450-113)  
Texas Tech University, Fall 2020  
Online
- DISMA Seminar  
Politecnico di Torino, January 23, 2020  
Title: *Blaschke’s Curvature Energies and Minimal Tori in  $\mathbb{S}^3$*

- Young Researcher Seminar  
University of Granada, November 21, 2017  
Title: *Superficies de Revolución Compactas con Curvatura Media Constante*  
(Translation: *Compact Constant Mean Curvature Rotational Surfaces.*)
- XVII Week of Science, Technology and Innovation  
Contribution: Talk  
November 8-12, 2017
- Global Geometry of Curves and Surfaces (in English)  
Subject of the Third Course of the Degree of Mathematics  
University of the Basque Country, Spring 2017  
Together with: Prof. Óscar J. Garay
- XVI Week of Science, Technology and Innovation  
Contribution: Talk  
November 2-6, 2016

## Service

- Theoretical Mathematics Elected Representative of the Graduate Committee  
Texas Tech University  
Fall 2025
- Member of the Passport Project Review Committee  
Texas Tech University  
Fall 2024
- Co-organizer of the Special Session “Differential Geometry” at the AMS Fall Central Section meeting  
UT San Antonio  
September 14-15, 2024
- Co-organizer of the Texas Geometry and Topology Conference (TGTC)  
Texas Tech University  
April 19-21, 2024
- Member of the Study Abroad Competitive Scholarship (SACS) Committee  
Texas Tech University  
Fall 2023 – Present
- Workshop speaker for the Emmy Noether Day  
Texas Tech University  
May 11, 2023
- Co-organizer of the XIX Red Raider Mini-Symposium “Differential Geometry and Integrable Systems”  
Texas Tech University  
April 20-23, 2023
- Co-organizer of the Special Session “Geometry of Submanifolds” at the AMS Fall Central Section meeting  
UT El Paso  
September 17-18, 2022
- Co-organizer of the Math Circles at Texas Tech University (TTU)  
Lubbock (USA)  
Fall 2022 – Present

- Co-organizer of the Geometry, PDE and Mathematical Physics Seminar (Math 5101)  
Texas Tech University  
Fall 2021 – Present
- Referee for: *Annali di Matematica Pura ed Applicata*, *Arnold Mathematical Journal*, *European Journal of Applied Mathematics*, *The Journal of Geometric Analysis*, *Journal of Mathematical Analysis and Applications*, *Mathematics*, *Nonlinearity*, and *Proceedings A of the Royal Society*, among others.