Curriculum Vitae

Álvaro Pámpano Llarena

(February 2026)

Assistant Professor
Department of Mathematics,
Texas Tech University,
Lubbock, Texas, USA.
E-mail: alvaro.pampano@ttu.edu
Website: https://alvaropampano.github.io/

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

- Hemphill Wells New Professor Award
Texas Tech University (TTU)
January 2026
- 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: Mª Luisa Férnandez

- 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: Mª Luisa Férnandez

- 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: Mª Luisa Férnandez 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: 2502.12434 [math.DG])
2. R. López, B. Palmer and A. Pámpano, Axially Symmetric Helfrich Spheres, *Commun. Pure Appl. Anal.* (2026).
   (Available at ArXiv: arXiv:2501.15668 [math.DG])
3. A. Pámpano, Characterization of Rotational Biconservative Hypersurfaces, *Contemp. Math.* **821** (2025), 159–171.
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])

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*

- XXIst 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

- Calculus III with Applications (Math 2450-111)
  Texas Tech University, Spring 2026
  Face to Face
- Calculus III with Applications (Math 2450-122)
  Texas Tech University, Fall 2025
  Face to Face
- Math Circle at Texas Tech University
  Lubbock, November 2025
- Geometry, PDE and Mathematical Physics Seminar (Math 5101)
  Texas Tech University, September 9, 2025
  Title: *Geometric Variational Problems for Curves and Surfaces*
- Linear Algebra (Math 2360-260)
  Texas Tech University, Seville (Study Abroad Program), Summer 2025
  Face to Face
- Higher Mathematics for Engineers and Scientists I (Math 3350-260)
  Texas Tech University, Seville (Study Abroad Program), Summer 2025
  Face to Face
- Calculus III with Applications (Math 2450-022)
  Texas Tech University, Spring 2025
  Face to Face
- Emmy Noether Day
  Texas Tech University, May 14, 2025
  Title: *Germain's Variational Problems and Noether's Symmetries*
- Math Circle at Texas Tech University
  Lubbock, April 2025
- Geometry, PDE and Mathematical Physics Seminar (Math 5101)
  Texas Tech University, February 11, 2025
  Title: *The Reduced Membrane Equation*
- Calculus III with Applications (Math 2450-121)
  Texas Tech University, Fall 2024
  Face to Face
- Calculus III with Applications (Math 2450-022)
  Texas Tech University, Fall 2024
  Face to Face
- Math Circle at Texas Tech University
  Lubbock, November 2025
- 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 – Present
- Workshop speaker for the Emmy Noether Day
  Texas Tech University
  May 14, 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.