

# JORDY CHEYEM LOPEZ GARCIA

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## EMPLOYMENT

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2025 – Postdoctoral Research Associate, University of Notre Dame  
Mentor: Jonathan Hauenstein

## EDUCATION

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2019 – 2025 Ph.D., Mathematics, Texas A&M University  
Advisor: Frank Sottile  
Dissertation: [Newton polytopes and toric varieties for periodic graph operators](#)  
2011 – 2016 B.S.+M.S., Mathematics, Minor in Art, summa cum laude  
The University of Texas Rio Grande Valley  
Advisor: Paul-Hermann Zieschang  
Thesis: [On hypergroups of order at most 6](#)

## PUBLICATIONS

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6. **Identifiability of catenary and directed-cycle linear compartmental models** (joint with Ahmed, Crepeau, Dessauer Jr., Edozie, Garcia-Lopez, Grimsley, Neri, and Shiu). *SIAM Journal on Applied Dynamical Systems*, **25-1** (2026), 304-350. DOI [10.1137/25M1728636](https://doi.org/10.1137/25M1728636)
5. **Additive invariants of open Petri nets** (joint with Bumpus, Libkind, Sorkatti, and Tenka). *Compositionality*, **7** (2025). DOI [10.46298/compositionality-7-4](https://doi.org/10.46298/compositionality-7-4)
4. **Irreducibility of the dispersion polynomial for periodic graphs** (joint with Faust). *SIAM Journal on Applied Algebra and Geometry*, **9-1** (2025), 83-107. DOI [10.1137/23M1600256](https://doi.org/10.1137/23M1600256)
3. **Deficiency of chemical reaction networks: the effect of operations that preserve multistationarity and periodic orbits** (joint with Gutierrez, Leake, Sobie, and Shiu). *Discrete and Continuous Dynamical Systems Series B*, (2024). DOI [10.3934/dcdsb.2024157](https://doi.org/10.3934/dcdsb.2024157)
2.  **$\mathbb{A}^1$ -Brouwer Degrees in Macaulay2** (joint with Borisov, Brazelton, Espino, Hagedorn, Han, Louwsma, Ong, and Tawfeek). *Journal of Software for Algebra and Geometry*, **14-1** (2024), 175-187. DOI [10.2140/jsag.2024.14.175](https://doi.org/10.2140/jsag.2024.14.175)
1. **Real solutions to systems of polynomial equations in Macaulay2** (joint with Maluccio, Sottile, Yahl). *Journal of Software for Algebra and Geometry*, **14-1** (2024), 87-95. DOI [10.2140/jsag.2024.14.87](https://doi.org/10.2140/jsag.2024.14.87)

## PREPRINTS

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3. **Common real secants to pairs of real twisted cubic curves** (joint with Aslam, Faust, Hauenstein, Kagy, Regan, Wampler, Zhang). Submitted. [arxiv.org/abs/2603.25003](https://arxiv.org/abs/2603.25003)
2. **Elimination without eliminating: computing complements of real hypersurfaces using pseudo-witness sets** (joint with Breiding, Cobb, Englander, Farnsworth, Hauenstein, Henriksson, Johnson, Mundayur). Submitted. [arxiv.org/abs/2601.04383](https://arxiv.org/abs/2601.04383)
1. **Transfers and unstable degrees in the  $\mathbb{A}^1$ -Brouwer Degrees package in Macaulay2** (joint with Atherton, Dutta, Ong, Louwsma, Luo, Sagarayaj). Submitted. [arxiv.org/abs/2511.12765](https://arxiv.org/abs/2511.12765)

## SOFTWARE

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2. [A1BrouwerDegrees](#) (joint with Atherton, Borisov, Brazelton, Dutta, Espino, Hagedorn, Han, Louwsma, Luo, Ong, Sagarayaj, and Tawfeek). A `Macaulay2` package for computing local and global  $\mathbb{A}^1$ -Brouwer degrees.
1. [RealRoots](#) (joint with Maluccio, Sottile, and Yahl). A `Macaulay2` package using symbolic computation to study real solutions to systems of polynomial equations.

## ORGANIZATION

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12. Organizer (with Connor Parrow) of the [ACMS Graduate and PostDoc Seminar](#).
11. Organizer (with Margaret Regan) of the mini symposium *Real Numerical Algebraic Geometry* at the SIAM Annual Meeting (AN26), 6-10 July 2026, at the Huntington Convention Center of Cleveland in Cleveland, OH.
10. Organizer (with Matthew Faust and Kisun Lee) of the mini-symposium *Applied and Computational Algebraic Geometry*, at the 2026 AMS Spring Southeastern Sectional Meeting, 28-29 March 2026, at Georgia Southern University–Armstrong Campus in Savannah, GA.
9. Organizer (with Matthew Faust and Frank Sottile) of the mini-symposium *Algebraic Geometry in Spectral Theory*, at the SIAM Conference on Applied Algebraic Geometry (AG25), 7-11 July 2025, at the University of Wisconsin-Madison in Madison, WI.
8. Organizer (with Anne Shiu and Matthias Maier, Angelique Morvant and Crystal Farris) of the [Directed Reading Program](#) at Texas A&M, Fall 2021–Summer 2025.
7. Organizer (with C.J. Bott and Frank Sottile) of the mini-symposium *Nonlinear algebra in applications*, at the 7th Annual Meeting of the SIAM Texas-Louisiana Section, 11-13 October 2024, at Baylor University in Waco, TX.
6. Organizer (with Taylor Brysiewicz, Luis David Garcia Puente, Nickolas Hein, and Kevin Purbhoo) of the [Workshop on Applied and Computational Enumerative Geometry](#), 3-7 June 2024, at the Fields Institute in Toronto, Canada. Supported by the Fields Institute and the U.S. National Science Foundation.
5. Organizer (with Julia Lindberg) of the mini-symposium *Nonlinear algebra in applications*, at the 6th Annual Meeting of the SIAM Texas-Louisiana Section, 3-5 November 2023, at University of Louisiana at Lafayette in Lafayette, LA.
4. Local organizer (with Gregory Berkolaiko and Matthew Faust) of the conference [Spectral Theory and Applications](#), 10-13 October 2023, at Texas A&M University in College Station, TX.
3. Organizer (with Josué Tonelli-Cueto and Thomas Yahl) of the mini-symposium *Applications and Computation in Algebraic Geometry*, at the 5th Annual Meeting of the SIAM Texas-Louisiana Section, 4-6 November 2022, at University of Houston.
2. Local organizer (with Arpan Pal) of the Spring 2023 *Graduate Algebra Symposium*, 29 April 2023, at Texas A&M University in College Station, TX.
1. Organizer (with Mansi Bezbaruah, Agniva Dasgupta, and Valeria Fragiadaki) of the Spring 2022 [Gathering in Graduate Expository Mathematics \(GIG'EM\)](#), April 2022, at Texas A&M University in College Station, TX.

## CONFERENCE GRANTS

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3. NSF conference grant<sup>1</sup>, [Workshop on Applied and Computational Enumerative Geometry](#), DMS-2419363, PI Luis David Garcia Puente, Co-PI Nickolas Hein, Co-PI Taylor Brysiwicz, 3-7 June 2024, USD 22,500.
2. Fields Institute and NSF logistical and funding support, (with Taylor Brysiewicz, Luis David Garcia Puente, Nickolas Hein, and Kevin Purbhoo), [Workshop on Applied and Computational Enumerative Geometry](#), 3-7 June 2024, CAD 25,000.
1. AMS Student chapter grant (with Mansi Bezbaruah, Agniva Dasgupta, and Valeria Fragiadaki), [GIG'EM Conference](#), 23 April 2022, USD 400.

## AWARDS

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10. [The Guseman Prize](#), Texas A&M University (2023). Description: The Guseman Prize was established in 1995, and is given annually to one or more outstanding graduate students in math who demonstrate excellence in research and exemplify the spirit and good will of Larry Guseman.
9. Houston A&M Mother's Club Outstanding TA Award, Texas A&M University (2022). Description: This award is granted to TAs who exhibit characteristics that go above and beyond expectations.
8. Scholastic Excellence Award in Mathematics, The University of Texas at Brownsville (2014).
7. Student Juried Show Exhibitor, The University of Texas at Brownsville (2014).
6. President's List. The University of Texas at Brownsville/Texas Southmost College (2011-2013).
5. Dean's List. The University of Texas at Brownsville/Texas Southmost College (2012).
4. Provost Essay Finalist. The University of Texas at Brownsville/Texas Southmost College (2012).
3. Paul Hanson Memorial Spiritual Leadership Award. Valley Christian High School (2011).
2. Valedictorian. Valley Christian High School (2011).
1. Distinguished Lecture Series essay finalist. The University of Texas at Brownsville/Texas Southmost College (2011).

## FELLOWSHIPS

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2. [Project NExT](#). Mathematical Association of America (2026).
1. Scorpion Scholar Fellowship. The University of Texas at Brownsville/Texas Southmost College (2011-2016). Description: This fellowship covered all the undergraduate tuition of my B.S. in Mathematics, and partially covered graduate tuition of my M.S. in Mathematics.

## TRAVEL GRANTS

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7. [AMS-Simons Travel Grant](#), American Mathematical Society (2026). USD 5000.
6. SIAM Student Travel Award (2025) to attend the [SIAM Conference on Applied Algebraic Geometry \(AG25\)](#) at the University of Wisconsin-Madison in Wisconsin, WI.
5. SIAM Travel Award to attend the [7th Annual Meeting of SIAM Texas-Louisiana Section](#) at Baylor University (2024).

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<sup>1</sup>Although I assisted in the preparation of this grant proposal, I could not be listed as Co-PI because I was a graduate student at the time.

4. AMS Travel Award to attend the [Fall Central Sectional Meeting](#) at The University of Texas, San Antonio (2024).
3. DAC Scheme Travel Award to attend two workshop of the program [New equivariant methods in algebraic and differential geometry](#) at the Isaac Newton Institute for Mathematical Sciences in Cambridge, UK (2024). The workshops are:
  - [Equivariant methods in geometry](#), and
  - [Applied and computational algebraic geometry](#).
2. SIAM Travel Award to attend the [6th Annual Meeting of SIAM Texas-Louisiana Section](#) at The University of Louisiana at Lafayette (2023).
1. AMS Mathematical Research Communities Travel Award to attend the 2022 Joint Mathematics Meetings in Boston, MA (2022).

## TALKS AND POSTER PRESENTATIONS

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### Talks

33. *Common Real Secants of Real Twisted Cubic Curves*. [Minisymposium Real Numerical Algebraic Geometry](#), SIAM Annual Meeting (AN26) in Cleveland, OH, 6-10 July 2026.
32. *Elimination Without Eliminating*. Math Seminar Series, Department of Mathematics, Rose-Hulman Institute of Technology, 29 April 2026.
31. *Elimination Without Eliminating*. [Applied Algebra Seminar](#), Department of Mathematics, University of Wisconsin-Madison, 23 April 2026.
30. *Common Real Secants of Real Twisted Cubic Curves*. [AMS Special Session Applied and Computational Algebraic Geometry](#), Spring Southeastern Sectional Meeting, Georgia Southern University-Armstrong Campus. 28-29 March 2026.
29. *Computing real secant lines of twisted cubic curves*. [AMS Special Session Numerical Algebraic Geometry and Its Applications \(a Mathematics Research Communities Session\)](#), Joint Mathematics Meetings in Washington D.C., 4-7 January 2026.
28. *How Can Algebraic Geometry Help Us Understand Graphene?*. College of Science Research Horizons, University of Notre Dame, 11 December 2025.
27. *Toric compactifications of periodic graph operators*. [AMS Fall Central Sectional Meeting](#), Saint Louis University, 18-19 October 2025.
26. *What Does Algebraic Geometry Have to Do with Graphene?*. College of Science Postdoc Lightning Talk, University of Notre Dame, 9 October 2025.
25. *Toric compactifications of periodic graph operators*. Mini symposium *Spectral Theory and Applications of Schrödinger Operators* at the [8th Annual Meeting of SIAM Texas-Louisiana Section](#), The University of Texas at Austin, 26-28 September 2025.
24. *Toric compactifications of periodic graph operators*. Geometry Seminar, Texas A&M University, 25 September 2025.
23. *Algebraic geometry in spectral theory*. Graduate and Postdoc Seminar, University of Notre Dame, 3 September 2025.
22. *Toric compactifications of periodic graph operators*. Mini symposium *Algebraic Geometry in Spectral Theory* at the [SIAM Conference on Applied Algebraic Geometry \(AG25\)](#), University of Wisconsin-Madison, 7-11 July 2025.

21. *Toric compactifications of periodic graph operators*. [AMS Special session on Applications of Algebraic Geometry](#), Joint Mathematics Meetings in Seattle, WA, 8-11 January 2025.
20. *Toric compactifications of periodic graph operators*. Mini symposium *Periodic Operators* at the [7th Annual Meeting of SIAM Texas-Louisiana Section](#), Baylor University, 11-13 October 2024.
19. *Toric compactifications of discrete periodic operators*. [AMS Fall Central Sectional Meeting](#), The University of Texas at San Antonio, 14-15 September 2024.
18. *Algebraic geometry in spectral theory*. [Mathematical Pathways to an Excellent Future](#) workshop, University of California, Riverside, 24 May 2024.
17. *Algebraic Fermi curves*. [AMS student chapter GIG'EM conference](#), Texas A&M University, 20 April 2024.
16. *Algebraic geometry in spectral theory*. Algebra and Combinatorics Seminar, The University of Texas at Dallas, 17 April 2024.
15. *Algebraic geometry in spectral theory*. [Eleventh Discrete Geometry and Algebraic Combinatorics Conference](#), The University of Texas Rio Grande Valley, 24-25 February 2024.
14. *Operators, polytopes and toric geometry*. [AMS Special session on Combinatorial Insights into Algebraic Geometry](#), Joint Mathematics Meetings in San Francisco, CA, 3-6 January 2024.
13. *Operators, polytopes, and toric geometry*. Mini symposium *Discrete and Continuous Schrödinger Operators* at the [6th Annual Meeting of SIAM Texas-Louisiana Section](#), University of Louisiana at Lafayette, 3-5 November 2023.
12.  $\mathbb{A}^1$ -Brouwer degrees in Macaulay2. Mini symposium *Combinatorial and Computational Algebraic Geometry* at the [6th Annual Meeting of SIAM Texas-Louisiana Section](#), University of Louisiana at Lafayette, 3-5 November 2023.
11. *Discrete periodic operators and algebraic geometry*. [AMS Southeastern Regional Meeting](#), Georgia Institute of Technology, 18-19 March 2023.
10. *Functors on open Petri nets*. [AMS Special Session on Applied Category Theory \(A Mathematics Research Communities session\)](#), Joint Mathematics Meetings in Boston, MA, 4-7 January 2023.
9. *Discrete periodic operators and algebraic geometry*. [MSRI \(SLMath\) Special Session on The MSRI Undergraduate Program \(MSRI-UP\)](#), Joint Mathematics Meetings in Boston, MA, 4-7 January 2023.
8. *Extending Irreducibility of Bloch varieties*. Mini symposium *Applications and Computation in Algebraic Geometry* at the [5th Annual Meeting of SIAM Texas-Louisiana Section](#), University of Houston, 4-6 November 2022.
7. *Functors on open Petri nets*. [Mathematics Research Communities on Applied Category Theory](#), Java Center, NY, 29 May-4 June 2022.
6. *Using Macaulay2 to count real roots of univariate polynomials*. Fall 2021 *Graduate Algebra Symposium*, The University of North Texas, 12 November 2021.
5. *Using Macaulay2 to count real roots of univariate polynomials*. Mini symposium *Algorithmic Algebra and Geometry* at the [4th Annual Meeting of SIAM Texas-Louisiana Section](#), The University of Texas Rio Grande Valley, 5 November 2021.
4. *What is a scheme?*. AMS student chapter GIG'EM Conference, Texas A&M University, 27 April 2021.
3. *Hypergroups and buildings 2*. Pure mathematics seminar, The University of Texas at Brownsville, April 2015.
2. *Hypergroups and buildings 1*. Pure mathematics seminar, The University of Texas at Brownsville, April 2015.
1. *On Galois theory*. Algebra Day, The University of Texas at Brownsville, February 2013.

## Poster presentations

2. *Extending irreducibility of Bloch varieties*. [Texas Algebraic Geometry Symposium](#), Texas A&M University, College Station, 30 September-2 October 2022.
1. *Using Macaulay2 to count real roots of univariate polynomials*. Notre Dame Future Faculty Workshop, Notre Dame University, 2-4 May 2022.

## MENTORING

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**Graduate Student Panels.** Description: I served by answering questions regarding life in graduate school.

2. [Mathematical Pathways to an Excellent Future](#). University of California, Riverside, 24 May 2024.
1. [Bolstering the Advancement of Masters in Mathematics](#), Zoom, 14 April 2023.

**Association for Women in Mathematics TAMU Student Chapter Mentoring Program.** Description: Mentored first and second year graduate students in their transition to graduate school.

1. Mentor for mathematics graduate students:

Mentee: John Ajayi (Fall 2024)

Mentee: Pooja Joshi (Fall 2023)

Mentee: Zeytoon Kazemimoghaddam (Spring 2023)

**Texas A&M Directed Reading Program.** Description: The [Directed Reading Program](#) at Texas A&M “gives undergraduates the opportunity to work one-on-one with a graduate mentor for the semester, learn an area of mathematics not covered in any course, and gain valuable presentation skills”. Graduate mentors prepare undergraduate students for a 12-15 minute talk about their reading topic at the end of the semester.

1. Mentor for 2 undergraduate students:

Mentee: Arthur Mayo III, Topological reduction in chemical reaction networks, Spring 2024.

Mentee: Tessoro Stefan, Topological Proof of the Infinitude of Primes, Spring 2021.

**POSSE STEM Program.** Description: Teach Python to first-generation college students from Houston ISD.

1. Teacher Assistant (Summer 2023 and Summer 2024).

**Texas A&M Hullabaloo U** (Fall 2023). I volunteered to teach a first-year seminar course for math majors.

**Twoples Directed Reading Program.** Description: Online mentoring program for undergraduate mathematics students.

1. Mentor for undergraduate students

Mentee: Jasmine Arredondo Torres (University of California, Riverside), Introduction to manifolds by Tu, Fall 2022.

**2022 MSRI Undergraduate Program:** [Algebraic methods in mathematical biology](#). Description: The (SLMath) MSRI Undergraduate Program is an REU that identifies talented students from underrepresented groups to conduct research and be part of a community of peers and mentors to support them through a successful graduate program.

1. Graduate Research Assistant for 18 REU students.

Organizers: Federico Ardila (Lead), Duane Cooper, Maria Mercedes Franco, Rebecca Garcia, Candice Price, and Anne Shiu (Research director).

## Undergraduate Capstone Projects.

1. Co-advisor (with Oleg Musin) for 9 undergraduate students during their capstone project at The University of Texas Rio Grande Valley. Each student presented a poster at the end of the semester in the mathematics department's end-of-the-school-year ceremony.

Mentee: Alexandra Castillo, Minimum network problems, Spring 2019.

Mentee: Andrea Lerma, Robin and Lagarias criteria, Spring 2019.

Mentee: Brenda Lee Garcia, Four Color Theorem, Spring 2019.

Mentee: Armando Silva, License plates recognition using neural networks, Spring 2019.

Mentee: Estefania Sierra, Voronoi diagrams and Delaunay triangulations, Spring 2019.

Mentee: Monica Muñoz, Kepler's conjecture, Spring 2019.

Mentee: Ana Gabriela Gutierrez, The cake-cutting problem, Spring 2019.

Mentee: Aldo Gonzalez, The isoperimetric problem of polyhedra, Fall 2018.

Mentee: Jessica Juarez, Two-distance sets, Fall 2018.

## PAST EMPLOYMENT

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13. Graduate Teaching Assistant, Texas A&M University (August 2019 – present).
12. Graduate Research Assistant, MSRI Undergraduate Program (June 2022 – July 2022).
11. Lecturer I, The University of Texas Rio Grande Valley (September 2016 – May 2019).
10. High school teacher, Valley Christian High School in Brownsville, TX, USA (August 2016 – May 2019).
9. Adjunct Instructor, Texas Southmost College (February 2017 – May 2017).
8. Graduate Teaching Assistant, The University of Texas Rio Grande Valley (September 2015 – May 2016).
7. College of Sciences Graduate Assistant, The University of Texas at Brownsville (June 2015 – August 2015).
6. Teaching Assistant, The University of Texas at Brownsville (September 2014 - May 2015).
5. College of Sciences Undergraduate Assistant, The University of Texas at Brownsville (July 2014 – August 2014).
4. Title V Calculus tutor, The University of Texas at Brownsville (January 2014 – May 2014).
3. Learning Enrichment tutor, The University of Texas at Brownsville (August 2013 – December 2013).
2. Teaching Assistant, The University of Texas at Brownsville (August 2012 – May 2013).
1. Instructor Assistant, The University of Texas at Brownsville (March 2012 – May 2012).

## SELECTED CONFERENCES AND WORKSHOPS

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19. IAS Park City Mathematics Institute, Research Topic: *Motivic Homotopy Theory*, Park City, Utah, USA, 20-27 July 2024.
18. Fields Institute, *Workshop on Applied and Computational Enumerative Geometry*, Toronto, Canada, 3-7 June 2024.
17. University of California, Riverside, Workshop *Mathematical Pathways to an Excellent Future*, Riverside, California, USA, 24 May 2024.



16. Isaac Newton Institute for Mathematical Sciences, [New Equivariant Methods in Algebraic and Differential Geometry](#), Cambridge, UK, 8-27 January 2024.
15. Joint Mathematics Meetings, San Francisco, California, USA, 3-6 January 2024.
14. 6th Annual Meeting of SIAM Texas-Louisiana Section, Lafayette, Louisiana, USA, 3-5 November 2023.
13. Simons Laufer Mathematical Sciences Institute, Summer School [Introduction to Derived Algebraic Geometry](#), Berkeley, California, USA, 26 June - 7 July 2023.
12. [Macaulay2 Workshop & Mini-school](#), Twin Cities, Minnesota, USA, 3-9 June 2023.
11. [AMS Southeastern Regional Meeting](#), Atlanta, Georgia, USA, 18-19 March 2023.
10. Institute for Computational and Experimental Research in Mathematics, Workshop [Algebraic Geometry in Spectral Theory](#), Providence, Rhode Island, USA, 24-26 February 2023.
9. Joint Mathematics Meetings, Boston, Massachusetts, 4-7 January 2023.
8. [5th Annual Meeting of SIAM Texas-Louisiana Section](#), Houston, Texas, USA, 4-6 November 2022.
7. [SACNAS NDISTEM conference](#), San Juan, Puerto Rico, 27-29 October 2022.
6. [Modern Math Workshop](#), San Juan, Puerto Rico, 26-27 October 2022.
5. Mathematical Sciences Research Institute, [MSRI-UP 2022: Algebraic Methods in Mathematical Biology](#), Berkeley, California, USA, 11 June - 23 July 2022.
4. AMS Mathematics Research Communities, Workshop [Applied Category Theory](#), Java Center, New York, USA, 29 May-4 June 2022.
3. [Western Algebraic Geometry Symposium](#), Fort Collins, Colorado, USA, 22-24 April 2022.
2. [4th Annual Meeting of SIAM Texas-Louisiana Section](#), South Padre Island, Texas, USA, 5 November 2021.
1. IAS PCMI, Research Topic: [Motivic Homotopy Theory](#), Online, 12-16 July 2021.

## TEACHING

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### University of Notre Dame

2. Instructor, ACMS 40790. Topics in Applied Mathematics: Computational Algebraic Geometry (Spring 2026).
1. Instructor, ACMS 40630/60630. Nonlinear Dynamical Systems (Fall 2025).

### Texas A&M University

21. Grader, Math 308. Differential Equations. (Summer 2025).
20. No teaching duties. Supported by NSF Grant DMS-1752672 of Anne Shiu (Summer I 2024).
19. Teaching Assistant, Math 150. Functions, Trigonometry and Linear Systems (Fall 2024).
18. Help Session tutor, Engineering Mathematics III (Summer II 2024).
17. No teaching duties. Supported by NSF Grant DMS-1752672 of Anne Shiu (Summer I 2024).
16. No teaching duties. Supported by NSF Grant DMS-2201005 of Frank Sottile (Spring 2024).
15. Grader, Math 696. Mathematical Communication and Technology (Fall 2023).



14. No teaching duties. Supported by NSF Grant DMS-2201005 of Frank Sottile (Summer II 2023).
13. Grader, Math 304. Linear Algebra (Summer I 2023).
12. Teaching Assistant, Math 152. Engineering Mathematics II (Spring 2023).
11. Teaching Assistant, Math 150. Functions, Trigonometry and Linear Systems (Fall 2022).
10. No teaching duties. Supported by a Texas A&M Fellowship (Summer 2022).
9. Teaching Assistant, Math 147. Calculus I for Biological Sciences (Spring 2022).
8. Teaching Assistant, Math 150. Functions, Trigonometry and Linear Systems (Fall 2021).
7. Help Session tutor, Math 409. Advanced Calculus (Summer II 2021).
6. Instructor of Record, Math 140. Math for Business and Social Sciences (Summer 2021).
5. Teaching Assistant, Math 152. Engineering Mathematics II (Spring 2021).
4. Teaching Assistant, Math 150. Functions, Trigonometry and Linear Systems (Fall 2020).
3. Grader, Math 430. Applied Algebra (Summer 2020).
2. Grader, Math 300. Foundations of Mathematics (Spring 2020).
1. Grader, Math 431. Structures and Methods in Combinatorics (Fall 2019).

### **The University of Texas Rio Grande Valley**

8. Instructor of Record, Math 1342 Elementary Statistical Methods, Math 1351 Fundamentals of Mathematics II, Math 2412 Pre Calculus (Spring 2019).
7. Instructor of Record, Math 1314 College Algebra, Math 1350 Fundamentals of Mathematics I, Math 1351 Fundamentals of Mathematics II, Math 1342 Elementary Statistical Methods, Math 4390 Math Project (Fall 2018).
6. Instructor of Record, Math 0330 Pre Statistics Jumpstart (Summer II 2018).
5. Instructor of Record, Math 2412 Pre Calculus, Math 1342 Elementary Statistical Methods, Math 1332 Contemporary Mathematics (Spring 2018).
4. Instructor of Record, Math 1314 College Algebra, Math 1351 Fundamentals of Mathematics II, Math 2412 Pre Calculus (Fall 2017).
3. Instructor of Record, Math 1314 College Algebra, Math 2414 Calculus II (Summer II 2017).
2. Instructor of Record, Math 2412 Precalculus, MATH 2413 Calculus I, Math 1342 Elementary Statistical Methods, (Spring 2017).
1. Instructor of Record, Math 1314 College Algebra, Math 1332 Contemporary Mathematics, Math 1351 Fundamentals of Mathematics II, Math 2412 Pre Calculus (Fall 2016).

### **Texas Southmost College**

Instructor of Record, College Algebra (Spring 2017).

### **Valley Christian High School**

3. Instructor of Record, Advanced Mathematics (Fall 2018).
2. Instructor of Record, Advanced Mathematics (Fall 2017).
1. Instructor of Record, Advanced Mathematics (Fall 2016).