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2022– NSF postdoc, *University of Utah*, Salt Lake City, UT, USA
 2021–2022 Wylie Assistant Professor, *University of Utah*, Salt Lake City, UT, USA

Preprints and Publications

- 2021 Bernstein-Sato theory for singular rings in positive characteristic.
 - With J. Jeffries and L. Núñez-Betancourt.
 - Submitted.
- 2021 Symmetry on rings of differential operators.
 - Journal of Algebra.
- 2020 Bernstein-Sato theory for arbitrary ideals in positive characteristic.
 - Transactions of the American Mathematical Society.
- 2020 Bernstein-Sato roots for monomial ideals in positive characteristic.
 - Nagoya Mathematical Journal.

University of Utah:

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|-------------------------|----------|---------------------------------|
| W2022 | MATH3160 | Complex Analysis for Engineers. |
| F2021 | MATH1220 | Calculus II. |
| University of Michigan: | | |
| F2020 | MATH116 | Calculus II. |
| W2020 | MATH116 | Calculus II. |
| W2017 | MATH115 | Calculus I. |
| F2016 | MATH105 | Precalculus. |

Other teaching experiences:

- 06/2021 Summer High School Program.
 - Director.
 - An intensive three-week program for motivated high school students.
- 08/2018 Course on Rings of Differential Operators.
 - A one-week introductory course on rings of differential operators aimed at graduate students and advanced undergrads.
- 07/2018 Michigan Math and Science Scholars, Fibonacci Numbers.
 - Graduate Student Instructor under Prof. Melvin Hochster.
 - A two-week intensive course to introduce highly motivated high-school students to number theory, combinatorics and game theory via the study of Fibonacci numbers.
- 07/2017 Michigan Math and Science Scholars, Fibonacci Numbers.

Scholarships and Awards

- 2018 Ito Foundation for International Education Exchange Scholarship.
 - Provides funding for up to two years of study in Japan.
- 2015 Third Prize at the International Mathematics Competition for University Students.
- 2014 Ede and Ravenscroft Prize.
 - Awarded annually to the most distinguished Science graduate of the year
- 2013 Cunninghame Medal and Prize.
 - Awarded annually to the most distinguished student in the Advanced Honours class of Mathematics
- 2011 Honorable Mention at the International Physics Olympiad.
- 2010 Gold Medal at the Spanish Physics Olympiad.

Service

- 2022 Organized a reading seminar on the Bhatt and Lurie's Riemann-Hilbert correspondence in positive characteristic.
- 2020, 2021 Co-organized the online Differential Operators in Commutative Algebra Seminar (DOCAS): <https://sites.google.com/umich.edu/docas>

Invited Talks

- 2021 Mathematical Congress of the Americas.
 - Session: Differential Operators in Algebraic Geometry and Commutative Algebra.
 - Video recording: <https://www.youtube.com/watch?v=-ZtFggLMAKg>
- 2021 Singularity Seminar of Nihon University.
- 2021 Commutative Algebra Seminar at University of Illinois at Chicago.
- 2021 Joint Mathematics Meetings.
 - Special Session on Commutative Algebra in Positive Characteristic.
- 2020 Commutative Algebra Seminar at Purdue University.
- 2020 Commutative and Homological Algebra Market Presentations (CHAMP).
 - Video recording: <https://www.youtube.com/watch?v=ayG3AH0-0bs>
- 2020 University of Arkansas Algebra Seminar.

- 2019 41st Japan Symposium on Commutative Algebra.
- 2019 Commutative Algebra and Algebraic Geometry Seminar, CIMAT.
- 2019 AMS Sectional Meeting, Madison, WI, USA
 - Special Session on Homological and Char. $p \nmid 0$ Methods in Commutative Algebra.
- 2019 Algebra Seminar, Universidad Autónoma de Madrid.
- 2019 RIMS x OIST joint workshop: “On the problem of resolution of singularities and its vicinity”, Okinawa, Japan.
- 2018 Singularity Seminar of Nihon University

Languages

- English — Native level.
- Spanish — Mother tongue.
- Japanese — Basic level