

Personal Information

Legal Status: U.S. Citizen
Address: 1020 Department of Mathematics, UC Berkeley
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Education

- Ph.D. in Mathematics at UC Berkeley (in progress)
- B.S. in Mathematics at University of Florida (2010-2014)
 - Major GPA: 4.0 (Summa Cum Laude)
 - Minor in Computer Sciences

Research Interest: Algebra and Combinatorics

Preprints and Publications

1. *Unit Interval Positroids and the Positive Grassmannian.* (under preparation)
2. *On the Molecules of Puiseux Monoids.* (with M. Gotti) (under preparation)
3. *Dyck Paths and Positroids from Unit Interval Orders.* (with A. Chavez) (submitted)
4. *Minimal Presentations of Shifted Numerical Semigroups.* (with R. Conaway, J. Horton, C. O’Neill, R. Pelayo, M. Williams, and B. Wissman) (submitted)
5. *Increasing Positive Monoids of Ordered Fields Are FF-monoids.* (submitted)
6. *Atomicity and Boundedness of Monotone Puiseux Monoids* (with M. Gotti) (submitted)
7. *On the Atomic Structure of Puiseux Monoids.* J. Algebra Appl. Volume 16 (2017), 20pp.
8. *On Delta Sets and their Realizable Subsets in Krull Monoids with Cyclic Class Groups.* (with S. Chapman and R. Pelayo) Colloq. Math. Volume 137 (2014), pp 137–146.

Selected Talks

- *Dyck Paths and Positroids from Unit Interval Orders.* FPSAC 2017, London, UK (summer 2017).
- *Dyck Paths and Positroids from Unit Interval Orders.* Combinatorics Seminar, UC Berkeley (spring 2017).
- *Toric Algebra: Semigroup Rings.* Combinatorial Commutative Algebra Seminar, UC Berkeley (spring 2017).
- *Monomial Ideals: Stanley-Reisner Ideals.* Combinatorial Commutative Algebra Seminar, UC Berkeley (spring 2017).

- *Puiseux Monoids and Their Atomic Structure*. IMNS 2016, Levico Terme, Italy.
- *Algebra of Symmetric Functions*. Student Combinatorics Seminar, UC Berkeley (spring 2016).
- *Incidence Algebras and Möbius Inversion Formula*. Student Combinatorics Seminar, UC Berkeley (spring 2016).
- *A Friendly Introduction to Numerical Semigroups*. PURE Math 2015 Symposium, University of Hawaii at Hilo.
- *On Realizable Delta Sets of Block Monoids of Cyclic Class Groups*. PURE Math 2013 Symposium, University of Hawaii at Hilo.
- *An Isomorphism Theorem of Completely Semisimple Inverse Semigroup* REUT 2012, California State University at Chico.

Teaching Experience

- Graduate Student Instructor (GSI) at UC Berkeley (Math Department) (spring 2017)
- Graduate Student Instructor (GSI) at UC Berkeley (Math Department) (fall 2016)
- Research Assistant at University of Hawaii at Hilo (PURE Math) (summer 2015)
- Teacher Assistant at University of Florida (Math Department) (fall 2013)
- Teacher Assistant at University of Havana (Math Department) (spring 2008)
- Teacher Assistant at University of Havana (Biology Department) (fall 2008)

Employment History

- Graduate Student Instructor (GSI) at UC Berkeley (spring 2017)
- Graduate Student Instructor (GSI) at UC Berkeley (fall 2016)
- Research Assistant at University of Hawaii at Hilo (summer 2015)
- Software Developer at Ultimate Software (summer 2014)
- Teacher Assistant at University of Florida (fall 2013)
- Student Researcher at University of Hawaii at Hilo (summer 2013)
- Student Researcher at CSU at Chico (summer 2012)

Other Professional Experiences & Skills

- Participant in the Summer Program in Analysis and Geometry at Princeton University (summer 2012)

- Programming/Computer Languages Learned: C#, Java, JavaScripts, Latex, Sage

Honors and Awards

- UC Berkeley Chancellor Fellowship (from fall 2014 to spring 2016)

Membership: AMS, MAA, SACNAS, Berkeley Science Network (BSN)