

MARLY | GOTTI



Education

- 2019 PhD in Mathematics (in progress)
University of Florida
- 2016 MSc in Mathematics
University of Florida
- 2014 BA in Mathematics
University of Southern California &
University of Florida

Selected PhD Coursework

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|--------------------|------------------------|
| Algebra I & II | Analysis of Algorithms |
| Analysis I & II | Data Structures |
| Combinatorics | Web Development |
| Algebraic Topology | |

Selected Publications

1. *The catenary and tame degrees on a numerical monoid are eventually periodic* with S. T. Chapman, A. Miller, C. Miller, and D. Patel, Journal of the Australian Mathematical Society, 97(3), pp. 289-300, 2014, [doi:10.1017/S1446788714000330](https://doi.org/10.1017/S1446788714000330)
2. *The catenary degrees of elements in numerical monoids generated by arithmetic sequences* with S. T. Chapman, A. Miller, C. Miller, D. Patel, Communications in Algebra, 45(12), pp. 5443-5452, 2017, [doi:10.1080/00927872.2017.1310878](https://doi.org/10.1080/00927872.2017.1310878)
3. *Atomicity and boundedness of monotone Puiseux monoids* with F. Gotti, Semigroup Forum, Springer, 96(3), pp. 536-552, 2018, [doi:10.1007/s00233-017-9899-9](https://doi.org/10.1007/s00233-017-9899-9)
4. *On the local k-elasticities of Puiseux monoids*, International Journal of Algebra and Computation, 29(01), pp. 147-158, 2019, [doi:10.1142/S0218196718500662](https://doi.org/10.1142/S0218196718500662)
5. *How do elements really factor in $\mathbb{Z}[\sqrt{-5}]$?* with S.T. Chapman and F. Gotti, In: Advances in Commutative Algebra, Springer Trends in Mathematics (Eds. A. Badawi and J. Coykendall), pp. 171-195, 2019, [doi:10.1007/978-981-13-7028-1](https://doi.org/10.1007/978-981-13-7028-1)
6. *Introduction to Factorization Theory* with S. T. Chapman and F. Gotti (book in preparation)

Work Experience

RStudio Intern | Summer 2019
RStudio, Boston, MA

Project: Develop a modeling package in R ([applicable](#)) to demonstrate different methods to measure how much a new data point is an extrapolation from the original data.

Mentor: Max Kuhn ([RStudio Summer Interns](#)).

Application Software Developer Analyst | 2017
College of Medicine, University of Florida, FL (Current)

Research support unit specializing in the science of information, in particular, supporting research at all stages with services such as data collection/cleaning/analysis using R; software (module) extensions for [REDCap](#) using PHP/Python/JavaScript; software deployment and maintenance for [WebCAMP](#); local software testing using Vagrant/Docker; Linux servers administration.

Adjunct Assistant Professor | 2016
Santa Fe College, FL

Set academic goals and prepared the coursework (Tests, Assignments, and Lectures). Assessed the relevance and impact of various lessons; revised and improved lesson format. Acted as an advisor and counselor to students.

Researcher | 2013 & 2015
University of Hawai'i at Hilo, HI

Guided and instructed a team of undergraduate students throughout the research process resulting in two scientific papers; the findings of these two papers were presented at the Joint Mathematics Meetings of January 2014 and 2016.

Software Engineer Intern | 2014
Ultimate Software, FL

Developed comprehensive suites for automation test plans and added test cases to existing testing framework (Echo, a Selenium-based testing framework). Identified and removed application risks; maintained C# programs and databases. Cultivated the set of principles native to Agile development and tracked customers cases using the Salesforce enterprise.

Technical Skills

R, RStudio, Docker, Vagrant, Python, Fabric, REDCap, WebCAMP, PHP, MySQL, Javascript, Java, C#.