

# Anya Michaelson

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## Research Interests

algebraic number theory, arithmetic statistics

## Education

2019–present **University of California Berkeley**, Ph.D. in Mathematics.

2015–2019 **Williams College**, B.A. in Mathematics.

## Research

2018–2019 **Undergraduate Thesis**, *Uncountable Noetherian Rings with Unusual Prime Ideal Structures*, Advisor: Susan Loepp, Williams College [1].

2018 **SMALL REU**, *Uncountable Excellent Rings with Countable Spectra*, Advisor: Susan Loepp, Williams College.

2017 **Emory REU**, *Lacunary Eta-Quotients Modulo Powers of Primes*, Advisor: Ken Ono, Emory University [2].

2013–2015 **Independent Research**, *Kinematic Determinants of Success in the Fencing Flick*, Advisor: Corey Cleland, James Madison University [3].

## Teaching

Fall 2020 **Graduate Student Instructor**, *UC Berkeley*.

Math 1B - Calculus. Instructor: Alexander Paulin

Summer **iD Tech Camp Instructor**.

2019 Courses: Java Coding for Minecraft, Scratch Game Design

2016–2019 **Teaching Assistant**, *Williams College*.

Courses: Abstract Algebra, Number Theory, Discrete Mathematics

Fall 2017 **iTeam Instructor**.

Teaching coding in Scratch at local elementary schools.

## Talks and Presentations

Spring 2021 *Finding Patterns: The Mathematics of Set the Game*.

Many Cheerful Facts Seminar, UC Berkeley

Fall 2019 *Bertini Theorems over Finite Fields*.

Student Arithmetic Geometry Seminar, UC Berkeley

Spring 2019 *Uncountable Excellent Rings with Countably Many Prime Ideals*.

Undergraduate Thesis Defense, Williams College

## Awards and Honors

2021 *Nullstellenfont* [4] appearing in *The Best Writing in Mathematics* (2020)

2019 NSF Graduate Research Fellowship

Chancellor's Graduate Fellowship (*UC Berkeley*)

Rosenberg Prize (*Williams College*)

- 2018 MAA MathFest Outstanding Presentation Award  
Barry Goldwater Honorable Mention
- 2017 Clare Boothe Luce Scholarship (*Luce Foundation*)  
Erastus C. Benedict Prize (*Williams College*)  
Barry Goldwater Honorable Mention

## --- Conferences/Workshops

- 2021 Arizona Winter Semester
- 2020 Connecticut Summer School in Number Theory
- 2020 Arizona Winter School
- 2019 Joint Math Meetings (talk)
- 2018 Joint Math Meetings (talk)  
MAA MathFest (poster)  
Nebraska Conference for Undergraduate Women in Math
- 2017 Grace Hopper Celebration of Women in Computing  
Graduate Research Opportunities for Women (GROW)

## --- Service

- 2021 Graduate Assembly Department Climate Advocate, *UC Berkeley*.
- 2020 - 2021 Equity & Inclusion Committee, *UC Berkeley*.
- 2019-2021 Noetherian Ring (NRing) Organizer, *UC Berkeley*.
- 2019-2021 Mathematics Graduate Students Association (MGSA), *UC Berkeley*.
- 2019-2020 Unbounded Representation (URep), *UC Berkeley*.
- 2016-2019 Student Math and Stat Advisory Board (SMASAB), *Williams College*.
- 2016-2019 Association for Women in Math Chapter, *Williams College*.

## --- Publications

- [1] S. Loepp and A. Michaelson. *Uncountable  $n$ -dimensional Excellent Regular Local Rings with Countable Spectra*. Trans Amer. Math. Soc. **373** (2020) pp.479-490.
- [2] Cotroneo, T., Michaelson, A., Stamm, E. et al. Lacunary eta-quotients modulo powers of primes. *Ramanujan J* (2020). <https://doi.org/10.1007/s11139-020-00257-y>
- [3] Michaelson AN, Cleland CL (2019) *Kinematic determinants of scoring success in the fencing flick: Logistic and linear multiple regression analysis*. PLoS ONE 14(9): e0222075. <https://doi.org/10.1371/journal.pone.0222075>

## --- Other Writing

- [4] Ben Logsdon, Anya Michaelson & Ralph Morrison (2020) *Nullstellenfont*, Math Horizons, 27:4, 5-7, DOI: 10.1080/10724117.2020.1714365
- [5] Anya Michaelson. *Design and Construction of Mathematical Posters*. Notices of the American Mathematical Society. 66.2 (2020): 189-191.