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## SUMMARY

Mathematician and educator with a passion for digesting complex problems alongside a team of collaborators and communicating their solutions to a broad audience.

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## EXPERIENCE

### • Rutgers University

*Hill Assistant Professor*

Piscataway, NJ

*August 2019 – Present*

- **Teaching:** Develop and teach original course curricula that both adhere to university guidelines and excite student interest, nine 40-hour classes. Demonstrated success through numerous positive student evaluations, particularly in mandatory prerequisite courses. Sought and received special permission to teach courses at the graduate level to support students' intellectual growth.
- **Learning Seminar:** Organized a learning seminar for graduate students on advanced topics unknown to other faculty members, four semesters in total. Augmented the standard graduate curriculum outside the classroom using my unique mathematical background. Approximately 25 hours of lecture personally supervised.
- **Math GRE Prep:** Prepared undergraduates for the Math Subject GRE Exam, a mandatory entrance exam for graduate school, in 2016, 2018, and 2021. Distributed these resources, originally funded by a National Science Foundation grant for undergraduate training, [online](#) for all students worldwide.

### • University of California, Los Angeles

*Teaching Assistant Coordinator*

Los Angeles, CA

*Fall 2018*

- **Training:** Trained incoming graduate students in the mathematics department to lead discussion sections. Worked with other divisions of UCLA to bring student-centered teaching techniques to math classes with a focus on serving historically underrepresented populations in STEM.

*Teaching Associate*

*Fall 2014 – Spring 2018*

- **Teaching:** Prepared and ran twice-weekly discussion sections for 21 10-week courses. Graded homework and exams, held office hours, and supported student learning.

### • Students Consulting for Non-profit Organizations

*Consultant and Team Lead*

Evanston, IL

*Fall 2011 – Spring 2013*

- **Consulting:** Worked with five Chicagoland non-profit organizations to develop new programs, improve marketing strategies, connect with new fundraising sources. Gained practical experience in consulting, presenting to clients, and project management.

### • Publications and Speaking Engagements

Various

- **Papers:** Published four research manuscripts, two appearing in professional journals. Prepared lecture notes and supplementary documents for the greater mathematical community, all available at [iancoley.org](https://iancoley.org).
- **Talks:** Invited to speak at domestic and international mathematical conferences and workshops, for both research and expository lectures. Spoke each term in departmental seminars and colloquia at both UCLA and Rutgers.

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## SKILLS

- **Research:** From an abstract problem, locate relevant resources and learn new concepts to deliver concrete results.
- **Coaching:** Create a collaborative environment in which students develop new skills under my senior guidance.
- **Public Speaking:** Distill complex topics and methodologies into comprehensible and entertaining presentations.
- **Computer Skills:**  $\LaTeX$ , Python, C++, MS Office Suite, GIMP
- **Languages:** English (Fluent), Russian (Limited Working Proficiency), Mandarin (Limited Working Proficiency)

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## EDUCATION

### • University of California, Los Angeles

*Doctor of Philosophy in Mathematics*

Los Angeles, CA

*August 2013 – June 2019*

- **Thesis:** [The stabilization and K-theory of pointed derivators](#), advised by Paul Balmer.

### • Northwestern University

*Bachelor of Arts in Mathematics and Classics (Latin)*

Evanston, IL

*August 2009 – June 2013*