

**Ian Coley**  
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## Education

**University of California, Los Angeles** Los Angeles, CA  
*Doctor of Philosophy, Mathematics* August 2013 – June 2019 (expected)

- Obtained Master's degree, December 2015
- Advanced to candidacy, October 26, 2016. Advisor: [Paul Balmer](#)
- Research interests: derivators and homotopy theory, algebraic  $K$ -theory

**Northwestern University** Evanston, IL  
*Bachelor of Arts, Mathematics and Classics (Latin)* September 2009 – June 2013

- Graduated *magna cum laude*
- Honors thesis: [An Explicit Construction of an Expander Family](#), advised by Simon Marshall

## Teaching Experience

**Graduate Student Instructor** Los Angeles, CA  
*University of California, Los Angeles* August 2017 – present

- Courses taught: Math 32A, 32AH, 32BH
- Create original curriculum, homework assignments, and exams
- Lecture thirty hours per course, hold office hours, assign final grades

**Teaching Assistant** Los Angeles, CA  
*University of California, Los Angeles* September 2014 – June 2017

- Courses taught: Math 31A, 31B, 32A, 32AH, 32BH 110A, 115A, 210A, 210B, 210C
- Prepared and ran discussion sections, graded homework and exams, held office hours

**GRE Prep Course** Los Angeles, CA  
*University of California, Los Angeles* August 2016

- Developed curriculum for a Math Subject GRE preparation course from scratch
- Taught lessons on all undergraduate mathematics relevant to the exam
- Administered practice tests and created electronic resources for analyze students' results
- Published detailed solutions to practice tests to the public

## Professional Activities

**Webmaster of [UCLA Derivators Seminar](#)** September 2015 – present

- Maintain repository of papers for the field of derivators
- Advertise conferences and new publications from members of the UCLA Derivators Seminar

## President of UCLA Mathematics Graduate Student Organization

*August 2015 – present*

- Coordinate social and academic activities for fellow graduate students
- Liaise with mathematics faculty and administration to address graduate student concerns
- Secure funding and teaching assistantships for fifth- and sixth-year students
- Advocate for students in the physical sciences broadly to UCLA graduate student government

## Talks and Presentations

- *The K-theory of derivators*, Recent developments in noncommutative algebra and related areas, University of Washington, 17 March 2018 (upcoming)
- *Derivators as an enhancement of triangulated categories*, Seminar of the Department of Algebra, University of Sevilla, 10 July 2017
- Various talks monthly, UCLA Derivators Seminar, University of California, Los Angeles, September 2015 – present

## Conferences

- *Dérivateurs à Barcelone*, University of Barcelona (IMUB) *1–4 September 2015*
- *Triangulated Categories and Applications*, Banff International Research Station *19–24 June 2016*
- *K-theory and related fields*, Hausdorff Research Institute for Mathematics *19–30 June 2017*

## Papers and preprints

- *Stabilization of derivators revisited*, arXiv:1802:04343, submitted for publication

## Awards, Grants, and Honors

- Visiting Researcher, University of Sevilla, approximately \$1,000 *4–11 July 2017*
- UCLA Graduate Dean's Scholar Award, \$14,500 *August 2013*
- Phi Beta Kappa Society *May 2013*