

John Chiarelli

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Education

Rutgers University Masters and PhD in Mathematics <i>Concentration: Combinatorics</i> <i>Advisor: Michael Saks</i>	Piscataway, NJ Spring 2020
New York University B.A. in Mathematics	New York, NY Spring 2013

Teaching Experience

Full Instructor

- Calculus II for the Mathematical and Physical Sciences, Summer 2019
- Graph Theory, Summer 2017
- Multivariable Calculus, Summer 2016

Teaching Assistant

- Calculus I, Fall 2014
- Calculus II for the Mathematical and Physical Sciences, Fall 2017 and Fall 2019
- Multivariable Calculus, Fall 2015 and Spring 2018
- Differential Equations for Engineering and Physics, Spring 2015 and Fall 2018
- Introduction to Real Analysis I, Spring 2016

Professional Development

Rutgers Math Teaching Group Active Participant	Piscataway, NJ Spring 2018-Spring 2019
<ul style="list-style-type: none">• Participated in weekly discussions on undergraduate teaching and pedagogical methods• Lead a session as part of a semester-long discussion of how to improve the Calculus sequence	
2nd Northeastern RUME Conference	New Brunswick, NJ
<ul style="list-style-type: none">• Attended conference on research into pedagogy in mathematics at the undergraduate level	October 6, 2018

Honors and Awards

Rutgers University Mathematics Department SAS Fellowship	Fall 2013
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Research Experience

Rutgers University Thesis Research Investigated problems in discrete math	Piscataway, NJ Summer 2016- Spring 2020
Cornell University REU Participant Researched planar tilings under Robert Connelly	Ithaca, NY Summer 2012

Publications

J. Chiarelli, P. Hatami, and M. Saks. “An Asymptotically Tight Bound on the Number of Relevant Variables in a Bounded Degree Boolean Function.” To appear in *Combinatorica*, 2019

J. Chiarelli and M. Saks. “Relaxations on Stability in the Stable Matching Problem.” (tentative title) In preparation.

J. Chiarelli and M. Saks. “The Lattice Structure of Stable Matching Relaxations.” (tentative title) In preparation.

Invited Seminar Talks

“A Tight Bound on the Number of Relevant Variables in a Low Degree Boolean Function.” Graduate Student Combinatorics Conference. University of Texas at Dallas. Dallas, TX
April 6, 2018

“Construction of the Low-Degree Boolean Polynomials.” Rutgers Experimental Mathematics Seminar. Rutgers University. Piscataway, NJ
November 29, 2018
