

KATIE MCKEON



CONTACT INFORMATION

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EDUCATION

Rutgers, The State University of New Jersey, New Brunswick, New Jersey, USA

Ph.D. Candidate (expected graduation date: May 2018)
Thesis Project: Investigating the distribution of closed geodesics in an arithmetic quotient of hyperbolic 3-space.
Advisor: Alex Kontorovich

University of Nebraska - Lincoln, Lincoln, Nebraska, USA

Bachelor of Science in Mathematics, with Highest Distinction, May, 2013
Minor: Computer Science

FELLOWSHIPS & HONORS

CCICADA Fellowship **2015-2017**
Sponsored by the Department of Homeland Security
AMS Graduate Student Chapter Leadership Award **April 2016**
Janice Pattwell Fellowship **2014-2015**
Rutgers University GAANN Fellowship **2013-2014**
University of Nebraska Math Department Chair's Prize **May 2013**
University of Nebraska Chancellor's Scholar **May 2013**

ACTIVITIES & OUTREACH

Rutgers Women in Math Organizer **2013-Present**
Rutgers Graduate Faculty Liaison Committee **2015-Present**
Graduate Number Theory Seminar Organizer **Spring 2017 - Present**
Rutgers Math Coding Group **Fall 2017-Present**
Graduate Student Mentor **Spring 2016**
in the Rutgers Undergraduate Mathematics Directed Reading Program
Invited Graduate Panelist **January 2016**
at the Nebraska Conference for Undergraduate Women in Math
Graduate Combinatorics Seminar Organizer **2015-2016**
Graduate Student Mentor **Summer 2015**
in the Rutgers DIMACS REU

RESEARCH & PROJECTS

Economics and Security of Randomization **Fall 2017**
Surveying large venue security experts in order to gather their experiences and opinions on incorporating randomness into security practices
Information Confidence Project **Summer 2017**
Interviewing experts in the area of cybersecurity and reviewing literature in order to suggest a standardized method for asserting and assessing confidence in reports of cyber threats

	Naval Research Lab Intern Investigating the Effects of Network Topology on Probe Scheduling	Summer 2016
	Undergraduate Honors Thesis Studying Graph Products of Voltage Graphs	Fall 2012
	University of North Carolina - Greensboro REU Classifying Partial Words of a Certain Complexity	Summer 2012
	Texas A&M Pre-REU Signal Analysis using Wavelets and Fourier Decomposition	Summer 2010
COMPUTER SKILLS	Proficient in: Python, JavaScript, Mathematica Familiar with: HTML/CSS, Java, Maple	
TALKS	‘The Effects of Network Topology on the Performance of Probe Schedulers’ CCICADA Research Group Lab Meeting	March 2017
	‘Dynamics, Geometry, and Number Theory’ Rutgers Mathematics Pre-enrollment Program	August 2017
TEACHING EXPERIENCE	Instructor at Rutgers ▶ Introductory Linear Algebra	Summer 2015
	Teaching Assistant at Rutgers ▶ Graduate Complex Analysis I ▶ Calculus I ▶ Multivariable Calculus	Fall 2015 Spring 2015 Fall 2014
	Graduate Assistant at Rutgers ▶ Junior/Senior Honors Seminar ‘Elementary Number Theory, Group Theory and Ramanujan Graphs’	Spring 2017
	Undergraduate Teaching Assistant at University of Nebraska ▶ Calculus II	2012-2013