

Travis Scholl

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RESEARCH INTERESTS

- Computational number theory
- Elliptic curve cryptography

EDUCATION

2018 (expected) Ph.D. Mathematics, University of Washington, Seattle WA (advisor: Neal Koblitz)
2013 B.S. Mathematics, University of Oregon, Eugene OR

PUBLICATIONS

1. Isolated elliptic curves and the MOV attack. *Journal of Mathematical Cryptology* to appear (2017). <https://doi.org/10.1515/jmc-2016-0053>.
2. Super-Isolated Elliptic Curves and Abelian Surfaces in Cryptography. Submitted. <https://arxiv.org/abs/1705.02316>.

RESEARCH TALKS

2017 Oct. Oregon Number Theory Days, University of Oregon
2017 May. Number Theory Seminar, University of Washington

TEACHING

2014 – 2017 Math 125: Calculus II, Summer Instructor
2016 – 2017 Math 510A: Preliminary Exam Preparation for Graduate Students, Instructor
2013 – 2018 Math 124/125/126: Calculus I - III, Teaching Assistant

PROGRAMMING

- I regularly use **Sage** in my research, and contribute to **Sage** development.
- I have written tens of thousands of lines of code in **Go**, **Javascript**, and **Python** and built several complete web applications, including an online math homework system.

AWARDS AND GRANTS

- 2017 Kazanci Fellowship, University of Washington
- 2014 Academic Excellence Award, University of Washington
- 2013 ARCS Fellowship, University of Washington
- 2013 Academic Merit Award, University of Washington

CONFERENCES ATTENDED

- 2017 Oct. *Oregon Number Theory Days*, Eugene, OR
- 2016 June *SaTC Workshop on Privacy and Security*, Madison, WI
- 2016 Mar. *Arizona Winter School, Analytic Methods in Arithmetic Geometry*, Tucson, AZ
- 2016 Jan. *Joint Mathematics Meetings*, Seattle, WA
- 2015 Oct. *Western Algebraic Geometry Symposium*, Seattle, WA
- 2015 Aug. *Sage Days 68*, Bellingham, WA
- 2015 May. *Sage Days 64.25*, Encinitas, CA
- 2015 Mar. *Arizona Winter School, Rational Points on Surfaces*, Tucson, AZ

OUTREACH

- 2015 – 2018 Association for Women in Mathematics, University of Washington Chapter member and volunteer
- 2016 – 2017 Mentor, Washington Experimental Mathematics Lab, University of Washington working with groups of undergraduate researchers
- 2017 Sage Workshop Leader, Math Day, University of Washington teaching high school students about programming and math
- 2017 Volunteer, Julia Robinson Math Festival, University of Washington leading elementary school students through puzzles
- 2016 Mentor, Google Summer of Code, University of Washington helping guide a project about computing with modular abelian varieties

EMPLOYMENT

- 2013 – 2018 Teaching Assistant, University of Washington
- 2015 – 2017 Web Developer, University of Washington
- 2012 – 2013 Math Librarian, University of Oregon