Travis Scholl

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U.S. Citizen

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RESEARCH INTERESTS

- Computational number theory
- Elliptic curve cryptography

EDUCATION

2018 Ph.D. Mathematics, University of Washington (advisor: Neal Koblitz)

2013 B.S. Mathematics, University of Oregon

PUBLICATIONS

- 1. Isolated elliptic curves and the MOV attack. Accepted for publication in *Journal of Mathematical Cryptology*. https://doi.org/10.1515/jmc-2016-0053.
- 2. Super-Isolated Elliptic Curves and Abelian Surfaces in Cryptography. Accepted for publication in *Experimental Mathematics*. https://doi.org/10.1080/10586458. 2017.1412371.
- 3. Abelian Varieties with Small Isogeny Class and Applications to Cryptography Ph.D. Thesis. 2018.

RESEARCH TALKS

2018	Jun.	Communicating	Mathematics	Effectively.	University	of O	regon

- 2018 Feb. Computer Science Theory Seminar, University of Pennsylvania
- 2018 Feb. Colloquium, Center for Communications Research Princeton
- 2017 Oct. Oregon Number Theory Days, University of Oregon
- 2017 May. Number Theory Seminar, University of Washington

TEACHING

Math 308: Matrix Algebra with Applications, Instructor

Spring 2018

Math 124: Calculus I, Teaching Assistant

Winter 2014

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Math 125: Calculus II, Teaching Assistant

Fall 2013, Spring 2014, Fall 2014, Winter 2014, Spring 2015, Fall 2015, Winter 2016, Spring 2016, Winter 2017, Fall 2017, Winter 2018, Summer 2018

Math 126: Calculus III, Teaching Assistant Fall 2016

Math 125: Calculus II, Instructor

Summer 2014, Summer 2015, Summer 2016, Summer 2017

Math 510A: Preliminary Exam Preparation for Graduate Students, Instructor Summer 2015, Summer 2016

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 web applications, including an online math homework system.

AWARDS AND GRANTS

- 2018 Best Poster, Algebraic Number Theory Symposium XIII
- 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
- 2012 DeCou Scholarship, University of Oregon

CONFERENCES ATTENDED

- 2018 Aug. MAA MathFest, Denver, CO
- 2018 Jul. Algorithmic Number Theory Symposium XIII, Madison, WI
- 2018 Jun. Communicating Mathematics Effectively, Seattle, WA
- 2018 Apr. PNW MAA Section Meeting, Seattle, WA
- 2018 Jan. Joint Math Meetings, San Diego, CA
- 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

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2018 - 2018	Tutor, Ada Developers Academy, Seattle WA
	helping women and underrepresented minorities learn to code
2015 - 2018	Member, Association for Women in Mathematics, University of Washington Chapter
	volunteering at tutoring sessions, idea workshops, and event organizing
2016 - 2018	Mentor, Washington Experimental Mathematics Lab, University of Washington
	working with groups of undergraduate researchers
2015 - 2018	Sage Workshop Leader, Math Day, University of Washington
	teaching high school students about programming and math
2015 - 2017	Volunteer, Julia Robinson Math Festival, University of Washington
	leading elementary school students through puzzles
2016 - 2016	Mentor, Google Summer of Code, University of Washington
	helping guide a project about computing with modular abelian varieties

EMPLOYMENT

2018 - 2018	Lecturer, University of Washington
2013 - 2018	Teaching Assistant, University of Washington
2015 - 2017	Web Developer, University of Washington
2015 - 2016	Contract Web Designer, Virginia Tech
2013 - 2014	Contract Web Designer, San Diego
2012 - 2013	Math Librarian University of Oregon