Travis Scholl

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https://tscholl2.github.io/website/

U.S. Citizen

Last Updated: February 3, 2019

ACADEMIC EMPLOYMENT

2018 – (cur.) Visiting Assistant Professor, University of California, Irvine

2018 – 2018 Lecturer, University of Washington

EDUCATION

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

2013 B.S. Mathematics, University of Oregon

RESEARCH INTERESTS

- Computational number theory
- Elliptic curve cryptography

PUBLICATIONS

- 1. T. Scholl. Super-Isolated Abelian Varieties. Submitted September 2018. Available at https://arxiv.org/abs/1809.03649.
- 2. T. Scholl. Abelian Varieties with Small Isogeny Class and Applications to Cryptography. PhD Thesis, University of Washington. Published online July 2018. Available at http://hdl.handle.net/1773/42458.
- 3. T. Scholl. Super-Isolated Elliptic Curves and Abelian Surfaces in Cryptography. *Experimental Mathematics*. Published online January 2017. Available at https://doi.org/10.1080/10586458.2017.1412371.
- 4. T. Scholl. Isolated elliptic curves and the MOV attack. *Journal of Mathematical Cryptology*, 11(3):131–146, 2017. DOI: https://doi.org/10.1515/jmc-2016-0053.

AWARDS AND GRANTS

- 2019 eTech Mini Grant, University of California, Irvine
- 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

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2012 DeCou Scholarship, University of Oregon

RESEARCH TALKS

2018	Oct.	Number Theory Seminar, University of California Los Angeles
2018	Oct.	Number Theory Seminar, University of California Irvine
2018	Oct.	Cryptography Seminar, University of California Irvine
2018	Jun.	Communicating Mathematics Effectively, University of Oregon
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

TEACHING

2017

University of California Irvine

May. Number Theory Seminar, University of Washington

Math 173B: Cryptography

Winter 2019

Math 3A: Linear Algebra, Instructor

Winter 2019

Math 2E: Multivariable Calculus, Instructor

Fall 2018

University of Washington

Math 308: Matrix Algebra with Applications, Instructor Spring 2018

Math 124: Calculus I, Teaching Assistant

Winter 2014

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

Math 126: Calculus III, Teaching Assistant

Fall 2016

Math 125: Calculus II, Instructor

Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018

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

CONFERENCES ATTENDED

2019	Jan.	Joint Math Meetings, Baltimore, MD
2018	Sep.	Open Questions in Cryptography and Number Theory, Irvine, CA
2018	Aug.	MAA MathFest, Denver, CO
2018	Jul.	Algorithmic Number Theory Symposium XIII, Madison, WI
2018	Jun.	Communicating Mathematics Effectively, Seattle, WA

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- 2018 PNW MAA Section Meeting, Seattle, WA Apr. 2018 Jan. Joint Math Meetings, San Diego, CA 2017 Oregon Number Theory Days, Eugene, OR Oct. 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 Western Algebraic Geometry Symposium, Seattle, WA Oct. 2015 Sage Days 68, Bellingham, WA Aug. 2015 May. Sage Days 64.25, Encinitas, CA Arizona Winter School, Rational Points on Surfaces, Tucson, AZ 2015 OUTREACH
- 2018 2018 Tutor, Ada Developers Academy, Seattle WA helping women and underrepresented minorities learn to code 2015 - 2018Member, Association for Women in Mathematics, University of Washington Chapter volunteering at tutoring sessions, idea workshops, and event organizing 2016 - 2018Mentor, Washington Experimental Mathematics Lab, University of Washington working with groups of undergraduate researchers Sage Workshop Leader, Math Day, University of Washington 2015 - 2018teaching high school students about programming and math 2015 - 2017Volunteer, 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

OTHER EMPLOYMENT

2018 - 2018 Software Engineer, www.cocalc.com
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

OTHER SKILLS

- I contribute to the free and open source computer algebra system Sage, and reguarly use Sage in my research.
- 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.