Travis Scholl

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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 2018. 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

2012 DeCou Scholarship, University of Oregon

RESEARCH TALKS

2019	Mar.	AMS Special Session on Arithmetic Geometry, University of Hawai'i at Mānoa
2019	Mar.	AMS Special Session on Cryptography, University of Hawai'i at Mānoa
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
2017	May.	Number Theory Seminar, University of Washington

TEACHING

UNIVERSITY OF CALIFORNIA IRVINE
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

SEMINARS ORGANIZED

2018 – cur. *Cryptographic Multilinear Maps*, University of California Irvine

CONFERENCES ATTENDED

2019	Mar.	*AMS Sectional Meeting*, Honolulu, HI
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
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

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

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.