Travis Scholl

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Research Interests

Computational number theory and elliptic curve cryptography.

Education

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

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

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

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`.

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 Mathematic 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

TEACHING

2014 – 2017 Math 125: Integral Calculus, Summer Instructor
(writing exams, assigning grades and homework, lecturing)
2016 – 2017 Math 510A: Preliminary Exam Preparation for Graduate Students, Summer Instructor
(reviewing previous exams, leading problem sessions)
2013 – 2018 Math 124/125/126: Calculus I - III, Teaching Assistant
(grading, leading problem sessions)

OUTREACH

2015 – 2018 Association for Women in Mathematic, University of Washington Chapter
(member and volunteer)
2016 – 2017 Mentor, Washington Experimental Mathematics Lab, University of Washington
(mentored undergraduate in several research projects)
2017 Sage Workshop Leader, Math Day, University of Washington
(taught high school students about `Sage`)
2017 Volunteer, Julia Robinson Math Festival, University of Washington
(taught elementary school students about math)
2016 Mentor, Google Summer of Code, University of Washington
(mentored a project about computing with modular abelian varieties)

EMPLOYMENT

2013 – 2018 Teaching Assistant, University of Washington
(leading quiz sections, grading exams)
2015 – 2017 Web Developer, University of Washington
(building an online math homework application)
2012 – 2013 Math Librarian, University of Oregon
(librarian and math tutor)