

# Travis Scholl

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## RESEARCH INTERESTS

- Computational number theory
- Elliptic curve cryptography

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## EDUCATION

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

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## 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>.

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## RESEARCH TALKS

2018 Feb. Computer Science Theory Seminar, University of Pennsylvania  
2018 Feb. Colloquium, CCR Princeton  
2017 Oct. Oregon Number Theory Days, University of Oregon  
2017 May. Number Theory Seminar, University of Washington

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## TEACHING

Math 308: Matrix Algebra with Applications, Instructor  
Winter 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

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

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## 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.

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## 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  
2012 DeCou Scholarship, University of Oregon

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## CONFERENCES ATTENDED

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

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## OUTREACH

2015 – 2018 Association for Women in Mathematics, University of Washington Chapter  
member and volunteer  
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

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## EMPLOYMENT

- 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