

# Travis Scholl

University of Washington      [tscholl2@uw.edu](mailto:tscholl2@uw.edu)  
Department of Mathematics    <https://tscholl2.github.io/website/>  
Seattle, WA 98195, USA        U.S. Citizen  
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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://arxiv.org/abs/1705.02316>.

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## RESEARCH TALKS

2017 Oct. Oregon Number Theory Days, University of Oregon  
2017 May. Number Theory Seminar, University of Washington

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## TEACHING

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  
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

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## 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 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 – 2017 Mentor, Washington Experimental Mathematics Lab, University of Washington working with groups of undergraduate researchers
- 2017 Sage Workshop Leader, Math Day, University of Washington teaching high school students about programming and math
- 2017 Volunteer, Julia Robinson Math Festival, University of Washington leading elementary school students through puzzles
- 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
- 2012 – 2013 Math Librarian, University of Oregon