Travis Scholl

University of Washington
Department of Mathematics
Seattle, WA 98195, USA

tscholl2@uw.edu
www.math.washington.edu/~tscholl2
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Employment

2013 – Graduate Student, University of Washington
2015 – 2016 Contract Web Designer, Virginia Tech
2012 – 2013 Math Librarian, University of Oregon

Education

2013 – Ph.D. Mathematics, University of Washington, Seattle WA
2011 – 2013 B.S. Mathematics, University of Oregon, Eugene OR
2009 – 2011 Washington University in St. Louis, St. Louis MO

Research Interests

Number theory, arithmetic geometry, and elliptic curve cryptography. I am currently studying isolated elliptic curves in cryptography under my advisor Neal Koblitz.

Awards and grants

2013 – 2012 Academic Excellence Award, from UW
2013 – 2015 ARCS Fellowship, from UW
2013 – 2014 Academic Merit Award, from UW

Conferences

2016 June. *SaTC Workshop on Privacy and Security*, Madison, WI
2016 Mar. *Arizona Winter School*, *Analytic Methods in Arithmetic Geometry*, Tuscon, AZ
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*, Tuscon, AZ

Talks

2017 May. *Super-isolated Varieties in Cryptography*, University of Washington, Number Theory Seminar
2016 Nov. *Special Primes in Cryptography*, University of Washington, 1,2,3 Seminar
2015 Nov. *Elliptic Curve Cryptography*, University of Washington, 1,2,3 Seminar
2015 Aug. *Neron Models*, University of Washington, Algebraic Geometry Club

2015 June *Abelian Varieties*, University of Washington, Algebraic Geometry Club

Selected Publications

1. Isolated elliptic curves and the MOV attack. *Journal of Mathematical Cryptology* to appear (2017). doi:10.1515/jmc-2016-0053.

Professional Presentations

2011 *Teaching Abstract Algebra* Larsen, S., Johnson, E., Scholl, T. (2011). Putting Research to Work: Web-Based Instructor Support Materials for an Inquiry Oriented Abstract Algebra Curriculum. Fourteenth Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education Conference on Research in Undergraduate Mathematics Education. Portland, OR.

2009 *Math Education* Larsen, S., Caughman, J., Yannotta, M., Johnson, E., Rutherford, F., Scholl, T. (2009). Teaching Abstract Algebra for Understanding. A special session at The Mathematics Association of America MathFest Conference. Portland, OR.

Teaching

2017 June Math 125: Calculus II
2016 June Math 125: Calculus II
2015 June Math 125: Calculus II
2014 June Math 125: Calculus II

Outreach

2015 – 2017 Association for Women in Mathematic, University of Washington Chapter
2016 – 2017 Mentor, WXML, University of Washington
2017 Sage Workshop Leader, Math Day, University of Washington
2017 Volunteer, Julia Robinson Math Festival, University of Washington
2016 Mentor, Google Summer of Code, University of Washington
2016 Volunteer, Julia Robinson Math Festival, University of Washington
2016 Sage Workshop Leader, Math Day, University of Washington
2015 Volunteer, Julia Robinson Math Festival, University of Washington

Programming

I regularly use `Sage` in my research.
I regularly write code in `Go`, `Typescript`, and `Python` for side projects available at `https://github.com/tscholl2`.
I am currently working with a professor at UW to build an online homework system for UW math courses.