Alexander Wertheim

Contact Information

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Research Interests

Cohomological invariants, algebraic groups, central simple algebras

Education

University of California, Los Angeles

Ph.D. Candidate, Mathematics (expected June 2020)

- Advisor: Alexander Merkurjev
- Cumulative GPA: 4.0
- Qualifying Exams Passed: Algebra, Geometry & Topology, French Language

Duke University

B.S. in Mathematics, May 2014

- Honors in mathematics, summa cum laude
- Senior thesis: "Complex Multiplication on Elliptic Curves"
- Senior thesis advisor: Leslie Saper

Teaching Experience

Summer	2017	Teaching Assistant, Differential and Integral Calculus (Math 31A)
Spring	2017	Teaching Assistant, Algebra (Math 110 C)
Winter	2017	Teaching Assistant, Integration and Infinite Series (Math 31B)
Winter	2017	Teaching Assistant, Algebra (Honors) (Math 110 BH)
Fall	2016	Teaching Assistant, Integration and Infinite Series (Math 31B)
Fall	2016	Teaching Assistant, Algebra (Honors) (Math 110 AH)
Summer	2016	Teaching Assistant, Precalculus (Math 1)
Spring	2016	Teaching Assistant, Integration and Infinite Series (Math 31B)
Winter	2016	Teaching Assistant, Differential and Integral Calculus (Math 31A)
Fall	2015	Teaching Assistant, Precalculus (Math 1)

Honors and Awards

2014	Phi Beta Kappa	Duke University
2013	PRUV Fellow	Duke University

Graduate Coursework

- ❑ Graduate Algebra
- ❑ Algebraic Geometry
- ❑ Algebraic Topology
- ❑ Homological Algebra
- ❑ Differential Topology
- ❑ Differential Geometry
- ❑ Commutative Algebra

Research Experience

2013 Complex multiplication on elliptic curves
Advisor: Leslie Saper, Department of Mathematics
Duke University, PRUV REU

2012 Solute reabsorption in dynamic models of the rat proximal tubule
Advisor: Anita Layton, Department of Mathematics
Duke University, REU in mathematical biology

Relevant Skills

Languages: English (native), French (basic)
Programming: C++, MATLAB, Python, LaTeX

References

Available upon request.