

# Nathan Walters - Curriculum Vitae

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## Personal

- Born on November 2, 1982.
- United States Citizen.

## Education

- B.A. Mathematics and Theater, Drake University, 2004.
- M.S. Mathematics, North Carolina State University, 2006.
- Ph.D. Mathematics, University of Georgia, 2012 (projected).

## Employment

- North Carolina State University 2004-2006.
- University of Georgia, 2006–present.

## Teaching Training

- North Carolina State University TA Training, 2004
- University of Georgia Teaching Seminar, 2007
- University of Georgia Teaching Seminar, 2008
- University of Georgia Special Teaching Seminar (Precalculus)
- University of Georgia Special Teaching Seminar (Calculus 1)

## Teaching Experience

- North Carolina State University, graduate student instructor.
  - Math 141, Calculus 1 (Teacher's Assistant), 1 semester
  - Math 241, Calculus 2 (Teacher's Assistant), 1 semesters

- Math 111, Precalculus, Algebra, and Trigonometry (Instructor of Record), 1 summer course
- Math 141, Calculus 1 (Instructor of Record), 2 semesters
- University of Georgia, graduate student instructor.
  - Math 1113, Precalculus (Instructor of Record), 1 semester
  - Math 2200, Calculus (Instructor of Record) 3 semesters, 1 summer.
  - Preparation for Real Analysis Qualifying Exam (Graduate Assistant), 1 summer
  - Preparation for Algebraic Topology Qualifying Exam (Graduate Assistant), 1 summer

## Journal Articles

- $k$ -Alternating Knots (with Philip Hackney and Leonard van Wyk), 2004, *Topology and its Applications* Volume 150, 125–131.
- Arithmetic Structures in Sparse Difference Sets (with Mariah Hamel, Neil Lyall, and Katherine Thompson) , 2010, *Journal of Number Theory*.
- Computing Torsion Subgroups of CM Elliptic Curves (with UGA Number Theory VIGRE research group), submitted.

## Presentations

- $k$ -alternating Knots. AMS-MAA-SIAM Special Session in Research in Mathematics by Undergraduates, III, Joing Mathematics Meetings 2004.
- Arithmetic Structure in Sparse Difference Sets. UGA Mock AMS conference, 2009.
- Structure in Sparse Difference Sets. Palmetto Number Theory Series XI, 2009.
- An Introduction to Capacity Theory. James Madison University REU program, 2011.
- Capacity Theory on Algebraic Curves. University of Georgia Number Theory/Arithmetic Geometry Seminar, 2011.
- Extending the Polya-Carlson Theorem: When Uniform Limits of Rational Functions are Rational. AMS Special Session on Dynamical Systems in Algebraic and Arithmetic Geometry, 2012.