

# Anastassia Etropolski

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## Appointments:

- RTG Lovett Instructor, Rice University, Houston, TX (July 2016 - Present)

## Education:

- PhD, Emory University; Advisor: David Zureick-Brown (May 2016)
- B.A. in Mathematics, Bard College (2011)

## Research Interests:

- Number Theory, Arithmetic Geometry

## Publications:

- *A local-global principle for Galois representations*; submitted.
- (With J. Cullinan and E. Sell) *On the ranks of the Jacobians of curves defined by Jacobi polynomials*. Rocky Mountain J. Math., 44 no. 1 (2014), 23 - 33.
- (With A. Carney and S. Pitman) *Powers of the eta-function and Hecke operators*. Int. J. Number Theory, 8 no. 3 (2012), 599-611.
- (With J. Booher and A. Hittson) *Evaluations of cubic twisted Kloosterman sheaf sums*. Int. J. Number Theory, 6 no. 6 (2010), 1349-1365.

## Fellowships and Awards:

- Woodruff Fellow, Emory University (Fall 2011 - Present)
- Distinguished Science Scholar, Bard College (Fall 2008 - Spring 2011)
- MAA Undergraduate Poster Session Prize Winner, Joint Mathematics Meetings (January 2010)
- Outstanding Presentation - Honorable Mention, Young Mathematician's Conference (August 2009)

## Teaching Experience:

- Instructor for Math 212 (Calculus 3) at Rice University (Spring 2017)
- Instructor for Math 499 at Rice University (Spring 2017)
- Instructor for Math 365 (Number Theory) at Rice University (Fall 2016)
- Instructor for Math 499 at Rice University (Fall 2016)
- Instructor for Math 112 (Calculus 2) at Emory University (Spring 2013, Spring 2014, Spring 2016)
- Instructor for Math 111 (Calculus 1) at Emory University (Fall 2012, Fall 2013, Fall 2014, Fall 2015)

- Bard Academic Resources Mathematics Tutor, various courses (Spring 2007 - Spring 2011)
- Teaching Assistant for Math 141 (Calculus 1) at Bard College (Fall 2008)

**Invited Talks:**

- *Sporadic Torsion on Elliptic Curves*, Junior Number Theory Days, Rutgers University - Newark (November 2016)
- *Sporadic Torsion on Elliptic Curves*, Rice Colloquium, Rice University (August 2016)
- *Sporadic Torsion on Elliptic Curves*, AMS Sectional Meetings: Special Session on Elliptic Curves, University of GA, Athens (March 2016)
- *Class Numbers of Function Fields*, Joint Mathematics Meetings: Special Session on Number Theory & Cryptography, Seattle, WA (January 2016)
- *A local-global principle for images of Galois representations*, University of South Carolina Algebra & Number Theory Seminar (May 2015)

**Other Presentations:**

- *Explicit example of the Brauer-Manin obstruction for a 9-nodal cubic threefold*, The University of Arizona, Tucson (March 2015)
- *Distribution of discriminants modulo primes*, Arizona Winter School, The University of Arizona, Tucson (March 2014)
- *A local-global principle for images of Galois representations*, SERMON, High Point University. (April 2013)
- *Powers of the eta-function and Hecke operators*, Integers Conference, University of West Georgia. (October 2011)
- *Conjectures on Twisted Kloosterman Sums*, MAA Undergraduate Poster Session (Prize Winner), Joint Mathematics Meetings (January 2010)
- *Conjectures on Twisted Kloosterman Sums*, Mid-Hudson Mathematics Conference for Undergraduates, Bard College. (October 2009)
- *Conjectures on Twisted Kloosterman Sums*, Young Mathematician's Conference, Ohio State University. (August 2009)

**Service:**

- Refereeing for Research in Number Theory and Proceedings of the American Mathematical Society.