Curriculum Vitae
John Thomas Bryk

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Career Goals

I seek a position where teaching and research are balanced and, if possible, integrated with one another. I am interested in the study of mathematics education, particularly at the undergraduate level.

Education

- **Doctoral Candidate, Mathematics**
  Rutgers University, degree expected Spring 2009
  Advisor: Jerrold Tunnell
  Thesis: *On the Numbers of Roots Modulo Primes of a Quintic Polynomial*
- **B.A., Mathematics and Economics**
  Williams College, 2002
  Graduated *cum laude*

Instructorships

Rutgers University

- Math 250, Introduction to Linear Algebra, Summer 2008
- Math 356, Theory of Numbers, Summer 2007
- Math 152, Calculus II for Math and Physical Sciences, Summer 2004

Teaching Assistantships

Rutgers University

- Math 152, Calculus II for Math and Physical Sciences, Fall 2007, Spring 2008, Fall 2008
  Ran recitation in workshop format: students work in small groups on challenging problems.

Undergraduate Outreach

- **Directed Reading Program***, Rutgers University*, 2005-2007
  Advised undergraduates in advanced areas of studies through weekly meetings; helped students prepare talks at end of each semester; advised students in quadratic reciprocity, *p*-adic numbers, analytic number theory, group theory.
- **Undergraduate Honors Seminar***, Rutgers University,* Spring 2004
  Assisted in running honors seminar for undergraduates; helped students prepare weekly talks; covered elementary number theory leading up to equations over finite fields.

Research Interests

•Algebraic number theory; Artin representations and automorphic forms.

Publications

•Measurable dynamics of simple p-adic polynomials, with C. E. Silva, *American Math. Monthly* **112** (2005), no. 3, 212-232.

•Constructing Almost Excellent Unique Factorization Domains, with S. Mapes, C. Samuels, and G. Wang, *Communications in Algebra* **33** (2005), 1321-1336.

Conferences Attended

•**Subconvexity bounds for *L*-functions**, *American Institute of Mathematics*, October 2006

•**Number Theory and Random Matrix Theory***, Rochester University,* June 2006
Attended week long school followed by week long conference; organized graduate student trip to Niagara Falls.

•**Workshop on *p*-adic Dynamics**, *Wesleyan University*, May 2005

Selected Talks

•**Rutgers Graduate Number Theory Seminar**
Selmer Groups and Class Groups, Spring 2007
Automorphic Forms on SL(3,Z), Fall 2006
ABC Conjecture, Spring 2006

•**Rutgers Graduate Pizza Seminar**
Gelfond-Schneider Theorem, Spring 2007
Dirichlet's Theorem on Arithmetic Progressions, Fall 2006
Ergodic Theory and Continued Fractions, Spring 2005

Scholarships and Support

•**GAANN Fellow***, Rutgers University,* 2006-2007

•**MetroMath Research Fellow***, Rutgers University*, 2005-2006
Interdisciplinary research group from New York City and Philadelphia area universities studying math education in urban schools; participated in study of the role of affect in the mathematics classroom; enrolled in mathematics education classes.

•**Henry C. Torrey Graduate Fellow***, Rutgers University*, 2003-2005

Service

•**Faculty-Graduate Student Liaison Committee**, *Rutgers University*, 2007-2008
•**Graduate Student Association Representative**, *Rutgers University*, 2003-2007

•**Rutgers Graduate Number Theory Seminar Organizer**, *Rutgers University*, 2006-2007

Awards

•**TA Teaching Award**, *Rutgers University*, Spring 2008
•**Rosenberg Prize for Excellence in Mathematics**, *Williams College*, 2002

Relevant Work Experience

•**Research Intern**, *Pitney Bowes*, *Shelton, CT,* Summer 2005
Studied encryption algorithms and formal cryptosystems.

Additional Information

•United States citizen
•Experience with Pari/GP, Prolog