

# Asher Natan Auel

Graduate Student Teaching Assistant  
Born 1981 in Oregon. US citizen.  
Languages spoken: English, French, Hebrew.  
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## Education

- UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA  
Mathematics Ph.D. expected May 2009  
Ted Chinburg, Ph.D. dissertation adviser
- UNIVERSITÉ PARIS-SUD XI ORSAY, Paris, France  
Diplôme d'Études Approfondies (DEA) Mathématiques Pures, August 2004  
Guy Henniart, DEA thesis adviser
- REED COLLEGE Portland, OR  
A.B. Mathematics, May 2003  
Joe P. Buhler, undergraduate thesis adviser
- LINCOLN HIGH SCHOOL, Portland, OR  
High School Diploma, June 1999

## Teaching/Experience

- *Course Instructor: Ideas in Mathematics*, University of Pennsylvania, Summers 2006–2007.
- *Teaching Assistant: Calculus I, Proving Things: Algebra, Abstract Algebra I/II*, University of Pennsylvania, Fall 2005, Spring 2006, 2006–2007.
- *Paper Grader: Calculus, Abstract Algebra*, Reed College, Fall 2002–Spring 2003.
- *Tutor, Math Review*, Reed College Fall Spring 2001–Spring 2003, University of Pennsylvania Fall 2004–Fall 2005.
- *Type II Wildland Firefighter (Squad Boss)*, Eagle Pass Reforestation Inc., Jacksonville, OR, Summer 2001–2003.

## Awards and Fellowships

- Teaching awards:
  - *School of Arts and Sciences Award for Distinguished Teaching*, University of Pennsylvania, April 2007.
  - *Penn Prize for Excellence in Teaching by Graduate Students*, University of Pennsylvania, April 2007.

- *Mathematics Department Good Teaching Award*, University of Pennsylvania, Fall 2005, Spring 2006, Fall 2006, Spring 2007.
- Departmental academic fellowships:
  - *Calabi Fellow*, University of Pennsylvania, Fall 2004–present.
  - *James B. Small Scholarship*, Reed College, September 2001/2002.
- Competitive academic fellowships:
  - *U.S. Advanced Student Fulbright Grant, France*, Université Paris-Sud XI Orsay, 2003–2004.
  - *NSF Graduate Fellowship Competition*, Honorable Mention, April 2003.
  - *Barry M. Goldwater Scholarship*, Reed College, April 2002.
- *Bronfman Youth Fellowship in Israel*, June 1998.

## Workshops Attended/Papers Presented

- *Fields Institute Summer School in Iwasawa Theory*, McMaster University, August 9–13, 2007. Full funding to attend.
- *Arizona Winter School 2007: p-adic geometry*, University of Arizona, March 10–14, 2007. Full funding to attend.
- *Clay Mathematics Institute 2006 Summer School: Arithmetic Geometry*, Mathematisches Institut, Georg-August-Universität, Göttingen, July 17–August 11, 2006. Full funding to attend.
- Talks given at the University of Pennsylvania:
  - *Orthogonal Galois theoretic characteristic classes I/II*, Galois Seminar, April 20/27, 2007.
  - *Can the automorphism group of an infinite field be so large?*, Galois Seminar, October 13, 2006.
  - *Fields of moduli of 3-point covers with mild reduction*, Galois Seminar, February 1, 2006.
  - *A generating function of étale algebras over a local field*, Graduate Student Seminar, October 7, 2005.
  - *Zapponi’s work on the Galois action on diameter four trees I/II*, Galois Seminar, June 17/24, 2005.
  - *The probability that a p-adic polynomial splits*, Graduate Student Seminar, October 22, 2004.

## Papers

- *Une démonstration d’un théorème de Bernstein sur les représentations de quasi-carré-intégrable de  $GL_n(F)$  où  $F$  est un corps local non archimédien*, (DEA Thesis, Paris XI, 2004), with adviser Guy Henniart.
- *Volumes of integer polynomials over local fields*, (Undergraduate Thesis, Reed College, 2003), with adviser Joe P. Buhler.