

## Kelly L. McKinnie, Curriculum Vitae

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### CONTACT INFORMATION

University of Montana  
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### EDUCATION

#### **Ph.D. Mathematics, May 2006**

University of Texas at Austin, Austin, Texas USA

- Dissertation Title: “Noncyclic and Indecomposable  $p$ -Algebras”
- Academic Advisor: David J. Saltman

#### **BS Mathematics, May 1999**

University of Missouri at Columbia, Columbia, Missouri USA

### RESEARCH INTERESTS

My research interests include finite dimensional division algebras,  $p$ -algebras, indecomposable division algebras, valued division algebras, Severi-Brauer varieties, algebraic  $K$ -theory and algebraic geometry.

### ACADEMIC EXPERIENCE

*Assistant Professor, University of Montana, Fall 2008 – Present*

*G.C. Evans Instructor & NSF Post-doctoral Fellow, Rice University, Fall 2007 – Spring 2009.*

*NSF Post-doctoral Fellow, Emory University, Fall 2006 – Summer 2007.*

### TEACHING EXPERIENCE

#### **G.C. Evans Instructor, Rice University**

PFUG Summer Research Program on Plane Curve Singularities, Summer 2008

Math 212, Multivariable Calculus, Spring 2008.

Math 365, Number Theory, Fall 2007.

Math 111, Fundamental Theorem of Calculus, Fall 2007.

#### **Assistant Instructor, University of Texas at Austin**

*Emerging Scholars Program, calculus workshop leader, Fall 2005.*

*Graduate Student Coordinator, Saturday Morning Math Group, Fall 2003-Spring 2004.*

Coordinated the “Saturday Morning Math Group”, a University of Texas, Department of Mathematics outreach program.

*Assistant Instructor & Teaching Assistant, University of Texas at Austin, Fall 2000 – Fall 2002.*

### SELECTED AWARDS AND HONORS

*NSF DMS-0901516 Measures of complexity on Brauer groups, 2009 - 2012.*

*Project NExT Fellow, 2009 - 2010.*

*NSF Mathematical Sciences Postdoctoral Research Fellowship, Awarded February 2006. Emory University and Rice University*

AWARDS AND  
HONORS CONT'D

*Frank Gerth III Dissertation award*, Spring 2006.

Awarded by the Department of Mathematics, University of Texas at Austin.

*Outstanding Teaching Award*, Fall 2003.

CONFERENCES  
CO-ORGANIZED

The 8th Brauer Group Meeting, Pingree Park Colorado, June 29 - July 4, 2008, organized with Skip Garibaldi and Daniel Krashen.

AMS Special Session on Division Algebras, Galois Theory, Cohomology and Geometry, San Antonio, TX, January 2006, organized with David J. Saltman.

PUBLICATIONS

1. Brussel, E., McKinnie, K., Tengan, E. Indecomposable and noncrossed product division algebras over function fields of smooth  $p$ -adic curves. *arXiv: 0907.0670*.
2. Kelly McKinnie. Degeneracy and Decomposability in abelian crossed products. *Submitted, 2008*.
3. Kelly McKinnie. Indecomposable  $p$ -algebras and Galois Subfields in generic abelian crossed products. *Journal of Algebra* 320(5): 1887 - 1907, 2008.
4. Kelly McKinnie. Prime to  $p$  extensions of the generic abelian crossed product. *Journal of Algebra*, 317(2): 813–534, 2007.
5. Kelly McKinnie. Noncyclic and indecomposable  $p$ -algebras. *Ph.D. Thesis, University of Texas at Austin*, May 2006.