

#### EDUCATION

University of Texas at Austin	Mathematics	Ph.D. 2001
Oberlin College	Mathematics	B.A. 1994

#### APPOINTMENTS

Assitant Professor	University of Georgia	2008-present
Visiting Scholar	University of Pennsylvania	2007-2008
Member	Institute for Advanced Study, Princeton	Fall 2006
Member	Institute for Advanced Study, Princeton	2004-2005
Gibbs Assistant Professor	Yale University	2003-2007
Visiting Scholar	University of Michigan, Ann Arbor	2002-2003
VIGRE Assistant Professor	University of California, Los Angeles	2001-2003
Graduate Instructor	University of Texas at Austin	1997-2001

#### PUBLICATIONS

- (1) *Applications of patching to quadratic forms and central simple algebras*, with D. Harbater and J. Hartmann. To appear in *Inventiones Mathematica*.
- (2) *Corestrictions of algebras and splitting fields*. To appear in *Transactions of the AMS*.
- (3) *Index reduction for Brauer classes via stable sheaves*, with M. Lieblich, appendix by Bhargav Bhatt. *Int Math Res Notices* (2008) Vol. 2008, article ID rnn010.
- (4) *Zero cycles on homogeneous varieties*. To appear in *Advances in Mathematics*.
- (5) *Birational isomorphisms between generalized Severi-Brauer varieties*. To appear in the *Journal of Pure and Applied Algebra*.
- (6) *Pointed trees of projective spaces*, with L. Chen and A. Gibney. To appear in the *Journal of Algebraic Geometry*.
- (7) *Motives of unitary and orthogonal homogeneous varieties*. To appear in the *Journal of Algebra*.
- (8) *Severi-Brauer varieties and symmetric powers*, with D.J. Saltman. In *Algebraic Transformation Groups and Algebraic Varieties*, volume 132 of *Encyclopaedia Math. Sci.*, pages 59-70. Springer, Berlin, 2004 (refereed).
- (9) *Severi-Brauer varieties of semidirect product algebras*. *Documenta Mathematica*, 8:527-546, 2003.

#### PREPRINTS

- (1) Appendix to *Period and index in the Brauer group of an arithmetic surface*, by M. Lieblich. Submitted for publication. <http://arxiv.org/abs/math.NT/0702240>
- (2) *Relative Brauer groups of genus 1 curves*, with M. Ciperiani. Submitted for Publication. <http://arxiv.org/abs/math.NT/0701614>
- (3) *Patching subfields of division algebras*, with D. Harbater and J. Hartmann, in preparation.

#### PAPERS IN PREPARATION

- (1) *Distinguishing algebras via their finite splitting fields*, with K. McKinnie, in preparation.
- (2) *The Clifford algebra of a morphism*, with M. Lieblich, in preparation.
- (3) *Operads of pointed trees of projective spaces*, with M. Ching, A. Gibney and E. Izadi, in preparation.

#### COMPUTER PROGRAMS

- (1) *The Nef Wizard - a software system for performing computations on  $\overline{M}_g$* , with A. Gibney. Available at <http://www.math.uga.edu/dkrashen/nefwiz/>
- (2) *Relative Brauer - a software system for computing relative Brauer group so of genus 1 curves over  $\mathbb{Q}$* . Available at <http://www.math.uga.edu/dkrashen/relbr/index.html>

#### HONORS AND AWARDS :

- 2008-2009 National Security Agency Young Investigator's Grant, H98230-08-1-0109  
2006-2007 National Security Agency Young Investigator's Grant, H98230-06-1-0032  
2000 University of Texas at Austin Department of Mathematics  
Edward and Louise Dodd Teaching Excellence Award  
1998-1999 University of Texas at Austin Continuing Fellowship  
1996 University of Texas at Austin David Bruton, Jr. Fellowship  
1994-1997 National Science Foundation Minority Graduate Fellowship  
1994 Rebecca Cary Orr Memorial Prize in Mathematics, Oberlin College

#### GRADUATE AND POSTDOCTORAL ADVISORS :

- Saltman, D. University of Texas at Austin  
Merkurjev, A. University of California, Los Angeles

#### OTHER ACTIVITIES

REU Advisor: Advised undergraduate Daniel Seneca Lindsey in summer project, 2002.  
Topic: Computational Techniques in Commutative Ring Theory.

National Association of Mathematics: Member, participant at Regional Faculty Conference on Research and Teaching Excellence at the Mathematical Sciences Research Institute, 2003.