

Seyfi Türkelli

- CONTACT INFORMATION Department of Mathematics
University of Georgia
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- CITIZENSHIP Republic of Turkey
- EMPLOYMENT Postdoc, University of Georgia-Athens, 2009-Present
- EDUCATION Ph.D. in Mathematics, University of Wisconsin at Madison, August 2009
 - Thesis Topic: Density of Discriminants: A Geometric Approach
 - Advisor: Prof. Jordan Ellenberg
 - Area of Study: Arithmetic GeometryM.S. in Noncommutative Geometry, Mathematical Research Institute, The Netherlands, 2004
 - Thesis Topic: Galois Cohomology
 - Advisor: Prof. Ieke MoerdijkB.S. in Mathematics, Istanbul Bilgi University, Turkey, 2003
 - Thesis Topic: Sharply 2-transitive groups
 - Advisor: Prof. Ali Nesin
- RESEARCH INTERESTS Arithmetic geometry, Algebraic number theory, Hurwitz stacks, Cohen-Lenstra heuristics, Bianchi modular forms, Gonality of curves.
- PUBLICATIONS
 - *The density of plane curves over finite fields with bounded singularity degree*, with Jeff Achter, In progress.
 - *Counting p -extensions of $\mathbb{F}_p(t)$* , with Rachel Pries, In progress.
 - *Lefschetz number of an involution for the principal congruence subgroups of $SL_n(\mathbb{Z}[\sqrt{-2}])$* , with Jonathan Hanke, In progress.
 - *A lower bound for the cuspidal cohomology of Bianchi groups*, with M. H. Sengun, To be submitted.
 - *Gonality of the modular curves of D -elliptic sheaves*, To be submitted.
 - *Connected components of Hurwitz schemes and Malle's conjecture*, Revised and submitted.
 - *Counting multisections in conic bundles over a curve defined over \mathbb{F}_q* , *International J. of Number Theory*, Vol 7, Issue 6 (2011), 1663-1680.
 - *Weight reduction for mod ℓ Bianchi modular forms*, with Haluk Sengun, *Journal of Number Theory*, Volume 129, Issue 8 (2009) 2010-2019.
 - *Splitting of sharply 2-transitive groups of characteristic 3*, *Turkish J. Math.* 28(2004), no. 3, 295-298.

- *Reel düzlemin izometrilere* (The classification of isometries of \mathbb{R}^2), Matematik Dünyası (Turkish Journal of Mathematics for high-school students), 2003, summer issue.
- *Dogrudan sasmayan donusumler* (Maps of \mathbb{R}^2 sending lines onto lines), Matematik Dünyası (Turkish Journal of Mathematics for high-school students), 2003, summer issue.

SURVEYS AND NOTES

- Finiteness Theorems in Arithmetic Geometry, In progress.
- On the average number of cubic fields of prime discriminant.
- A Report on a Paper by Tunell: A classical diophantine problem and modular forms of weight $3/2$, 2005.
- Introduction to Galois Cohomology, A survey on thesis problem, MRI, Advisor: Ieke Moerdijk, 2004.
- Homological Algebra Lecture Notes, as a co-author, MRI, 2004.
- Sharply 2-transitive groups , B.Sc. Thesis, Istanbul Bilgi University, 2003, Advisor: Ali Nesin.

AWARDS, FELLOWSHIPS AND GRANTS RECEIVED

- Excellence in Teaching Award, at UW-Madison, May 2009.
- Vilas Travel Grant, December 2008, Total amount: 600 USD
- Nominee of the Department of Mathematics for Capstone Ph. D. Teaching Award
- TA'ship at UW-Madison (2004-2009)
- Scholarship, Mathematical Research Institute, The Netherlands (2004)
- OSYM Scholarship (The State Scholarship which provides the tuition fee and the salary (1998-2003)
- Scholarship, Ozdemir Dersanesi (A Private School offering specialized courses) (1997-1998)

TEACHING EXPERIENCE

- Lecturer, Introduction to Mathematical Proofs, Summer, UGA-Athens
- Lecturer, Calculus II, Fall 2010, UGA-Athens
- Lecturer, Calculus I, Spring 2009, UGA-Athens
- Lecturer, Calculus I, Fall 2009, UGA-Athens
- Coordinator, Algebra, Evaluation N-A, Spring/2009, UW-Madison.
- Lecturer, Trigonometry, Evaluation N- A, Fall/2008, UW-Madison.
- Lecturer, Calculus and Trigonometry for PEOPLE program, Evaluation N-A, Summer/2008, UW-Madison.
- TA, Topics in Finite Mathematics, Evaluated **Superior**, Spring/2008, UW-Madison.

- TA, Calculus and Analytic Geometry, Evaluated **Superior**, Fall/2007, UW-Madison.
- TA, Calculus with Algebra and Trigonometry II, Evaluated **Superior**, Spring/2007, UW-Madison.
- Lecturer, Trigonometry, Evaluated Satisfactory , Fall/2006, UW-Madison.
- Lecturer, Trigonometry, Evaluation N-A, Summer/2006, UW-Madison.
- TA, Calculus, Evaluated **Superior** , Spring/2006, UW-Madison.
- TA, Calculus, Evaluated Satisfactory + , Fall/2005, UW-Madison.
- TA, Calculus with Algebra and Trigonometry II, Evaluated Satisfactory , Spring/2005, UW-Madison.
- TA, Calculus and Analytic Geometry, Evaluated Satisfactory , Fall/2004, UW-Madison.
- TA, Model Theory II, Evaluation N-A, Spring/2003, Istanbul Bilgi University.
- TA, Model Theory I, Evaluation N-A, Fall/2002, Istanbul Bilgi University.
- TA, Ring Theory, Evaluation N-A, Spring/2002, Istanbul Bilgi University.
- TA, Algebra I, Evaluation N-A, Fall/2001, Istanbul Bilgi University.

PRESENTATIONS

- “Cohomology of Bianchi groups”, PANTS meeting, Clemson University (2011, December)
- “A lower bound for the cuspidal cohomology of Bianchi groups”, Number Theory Seminar, University of South Carolina (2011, November)
- “Gonality of modular curves”, Rocky Mountain Discrete Math Days, University of Wyoming (2011, October)
- “Malle’s conjecture and Homological stability of Hurwitz schemes”, Number Theory and Algebraic Geometry seminar, Colorado State University (2011, October)
- “Counting extensions of function fields and Homological Stability of Hurwitz schemes, AMS sessions, Wake Forest University (2011, September)
- “The Vanishing of the Space of Cuspidal Bianchi Modular Forms”, AMS sessions, University of Notre Dame (2010, November)
- “The Vanishing of the Space of Cuspidal Bianchi Modular Forms”, UGA number theory seminar (2010, October)
- “Counting Algebraic Numbers of Fixed Degree over a Global Field”, AMS sessions, Boca Raton (2009, October)
- “Connected Components of Hurwitz Schemes and Malle’s Conjecture”, UGA number theory seminar (2009, September)
- “Homological Stability of Hurwitz Schemes”, GTEM Conference on Moduli Stacks of Coverings, Istanbul (2009, June)
- “On Malle’s Conjecture”, University of Duisburg-Essen, Germany (2009, January)

- “Counting Algebraic Numbers with Fixed Degree”, 2008 Western Number Theory Conference, Colorado State University, Fort Collins, CO (2008, December)
- “Connected Components of Hurwitz Schemes and Malle’s Conjecture”, GTEM/TUBITAK Summer School on Geometry and Arithmetic of Moduli Stacks of Coverings, Galatasaray University, Istanbul. (2008, June)
- “Connected Components of Hurwitz Schemes”, FRG Workshop on Rationally Connected Varieties, The Courant Institute, New York University. (2007, March)
- “On Malle’s Conjecture”, Midwest Number Theory Conference for Graduate Students IV, UIUC (2006, October)

CONFERENCES,
SUMMER SCHOOLS
AND WORKSHOPS
ATTENDED

- Arizona Winter School on Stark-Heegner Points (2011, March)
- Arizona Winter School on Quadratic Forms (2009, March)
- Winter School and Conference on Moduli Spaces, MPI at Bonn (2008, January)
- Midwest Number Theory Conference for Graduate Students V, UW-Madison (2007, October)
- Workshop on Deformation Theory and Moduli Spaces, MSRI (2007, July)
- Summer School on Homogeneous Flows, Moduli Spaces and Arithmetic, Clay Mathematics Institute, Pisa, Italy (2007, June)
- Arizona Winter School on p -adic Geometry (2007, March)
- Summer School on Arithmetic Geometry, Clay Mathematics Institute, Göttingen, Germany (2006, August)
- Workshop on Rational and Integral Points on Higher-Dimensional Varieties, MSRI, Berkeley (2006, January)
- Midwest Number Theory Conference for Graduate Students III, UW-Madison (2005, November)
- Midwest Number Theory Conference for Graduate Students II, UIUC (2005, February)
- Antalya Algebra Days, Antalya, Turkey (2003, May)
- Antalya Algebra Days, Antalya, Turkey (2002, May)