

Selin Kalaycıoğlu

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Citizenship: Turkey

Academic Appointments:

2009/8–present Visiting Assistant Professor, Department of Mathematics, Kenyon College
2009/7-8 Instructor, Harvard Kennedy School
2003–2009 Graduate Assistant Associate, Department of Mathematics,
University of Arizona

Education:

2003–2009 *University of Arizona, Tucson, AZ*
Ph.D. in Mathematics, May 2009
Focus: *Computational Group Theory and Representation Theory*
Advisor: Dr. Klaus Lux
2003–2004 *University of Arizona, Tucson, AZ*
M.S. in Mathematics, December 2004
Title: *Expander Graphs, Ramanujan Graphs and their Applications*
Advisor: Dr. Dinesh Thakur
1998–2002 *Yildiz Technical University, Istanbul, Turkey*
B.S. in Mathematics with Honors, December 2002
Thesis: *Green Functions*
Advisor: Dr. Seda Caliskan

Academic Honors and Awards:

Fall 2008 College of Science Teaching Award, University of Arizona
Spring 2008 Daniel Bartlett Scholarship, University of Arizona, Mathematics Department
Fall 2007 The Outstanding TA Award, University of Arizona, Mathematics Department
1998-2002 The Prime Minister Merit Based Scholarship of Turkey

Teaching Experience and Vertical Integration:

- Kenyon College, Fall 2009 & Spring 2010. Courses teaching: Calculus II, Basic Statistics, Abstract Algebra
- Kenyon College, Advising a senior exercise project on Coding Theory, Fall 2009
- Harvard Kennedy School, 2009 Mid-Career Summer Program, Quantitative Methods Instructor
- University of Arizona, Graduate Teaching Assistant 2003-2009. Courses taught through Spring 2009: Basic Statistics, College Algebra (x5), Precalculus, Calculus II, Linear Algebra (x2), Differential Equations (x2)(Held problem sessions)
- Contributor to college textbooks, 2009/1-present:
 - Calculus, Single and Multivariable: Hughes-Hallett, Gleason, McCallum, et al.
 - Applied Calculus: Hughes-Hallett, Gleason, Lock, Flath, et al.
 - Algebra, Form and Function: McCallum, Connally, Hughes-Hallett, et al.
 - Functions Modeling Change, A Preparation for Calculus: Connally, Hughes-Hallett, Gleason, et al.
- Teaching Assistant for the VIGRE Research Summer School in Computational Group Theory Summer 2008
- “Super TA”, Fall 2007, Spring 2008: Abstract Algebra.
- “Super TA”, Fall 2007, Spring 2008: Formal Mathematical Reasoning and Writing.
- Mentored an undergraduate project, Spring 2008: Math Modeling, Language Competition
- Senior Graduate Student Assistant for Graduate Integration Workshop (Summers, 2004 and 2006).
- High School Math Workshop on Cryptography (Presenter). Spring 2004.
- Summer Mathematics Camp at the University of Arizona. Summer 2004 (Counselor at 2 week long camp for mathematically talented middle school students)

Funded Conference Attendances:

- (Speaker) Joint Mathematics Meeting, San Francisco, January 2010

- (Participant) Ohio MAA Meeting, November 2009
- (Participant) Joint Mathematics Meetings, Washington D.C., January 2009
- (Speaker) The Southwestern Group Theory Day - Tucson, AZ, November 8, 2008.
- (Participant) Groups and Computations V - Columbus, OH, March 17-21, 2008.
- (Participant) The Southwestern Group Theory Day - Tucson, AZ, October 27, 2007.
- (Speaker) 3rd International Conference on the Teaching of Mathematics - Istanbul, Turkey, June 30-July 5, 2006.

Selected Coursework: Algebraic Number Theory I and II, Complex Analysis I and II, Algebraic Coding Theory, Homological Algebra, Special Topics Course in Representation Theory and Character Theory, Microeconomic Theory, Business for Scientists

Lectures/Talks Given:

- *A new Method for finding the Projective Indecomposable Modules of large Groups.* Algebra and Number Theory Seminar. University of Arizona. November, 2008.
- *Computing the Projective Indecomposable Modules of large Groups.* The Southwestern Group Theory Day. University of Arizona. November, 2008.
- *The Meat-Axe.* The VIGRE Research Summer School. University of Arizona. July, 2008.
- *Group Representations in Probability and Statistics.* Group Theory Seminar. University of Arizona. October, 2007.
- *Determination of Socle Series using the Condensation Method.* Group Theory Seminar. University of Arizona. April, 2007.
- *Algorithmic Methods in Modular Representation Theory.* Oral Comprehensive Exam. University of Arizona. November, 2006.
- *What would you do?* 3rd International Conference on the Teaching of Mathematics, Istanbul, Turkey. July, 2006.
- *Expander Graphs, Ramanujan Graphs and their Applications.* Masters Thesis Defense. University of Arizona. December, 2004.

- *Expander Graphs and the Zig-Zag Graph Product*. Mathematics Graduate Student Seminar, University of Arizona. October, 2004.