

ANDREI PAVELESCU

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EDUCATION

PH.D. in Mathematics, University of Southern California,
Los Angeles, CA May 2012
Master of Philosophy, Mathematics, University of Pennsylvania,
Philadelphia, PA May 2006
Master of Arts, Mathematics, Johns Hopkins University,
Baltimore, MD May 2003
Bachelor of Science, Mathematics, University of Bucharest,
Bucharest, Romania June 2002

WORK EXPERIENCE

- **Assistant Professor** August 2015- Present
University of South Alabama Mobile, AL
- **Visiting Assistant Professor** August 2012-May 2015
Oklahoma State University Stillwater, OK
- **Teaching Assistant** August 2007-May 2012
University of Southern California Los Angeles, CA
- **Teaching Assistant** September, 2003-May 2006
University of Pennsylvania Philadelphia, PA
- **Teaching Assistant** September 2002-May 2003
Johns Hopkins University Baltimore, MD

Classes taught/graded for: Calculus I-III, Linear Algebra, Differential Equations, Statistics and Probability, Undergraduate Algebra, Undergraduate Analysis, Algebra, Differential Geometry, Algebraic Topology, Representation Theory, Groups and Representation Theory, Enumerative Combinatorics, Real Analysis, Putnam Exam Preparation

SERVICE

- Co-organizer of the 2020 AACTM conference February 2020
- Faculty Handbook Committee May 2018- May 2019
- Board Member of the AACTM January 2018-Present
- Reviewer, International Transactions in Operational Research January 2018-Present

- Faculty Salary and Benefits Committee May 2017- May 2018
- Co-organizer of the Southern Regional Algebra Conference March 2107
- Co-organizer of a JMM 2017 Special Session January 2017
- Research Committee of the Faculty Senate, USA, August 2016 -May 2017
- Faculty Senate, University of South Alabama May 2016-Present
- Reviewer, Mathematical Reviews May 2016 -Present
- Graduate Committee, Maths & Stats Department, September 2016-Present
- Curriculum Committee, Maths & Stats Department, September 2015-August 2016
- High School Mathematics Contest Committee, OSU 2013-2015
- Faculty Advisor for the Delta Kappa Epsilon chapter at OSU 2013–2015
- Vice President of the Graduate Student Senate, USC September 2011-November 2011
- Member of the Graduate School Faculty Advisory Council September 2011-November 2011
- GPSS Senator of the MGSA, USC September 2010-May 2011
- President of the Mathematics Graduate Student Association, USC May 2009-May 2010

PUBLICATIONS/PREPRINTS

- Thomas Mattman, Ramin Naimi, Andrei Pavelescu, Elena Pavelescu, On the intrinsic knottedness of graphs and their complements, in preparation
- Ramin Naimi, Andrei Pavelescu, Elena Pavelescu, K_{11} is not bilinklessly embeddable, in preparation
- Ryan Odeneal and Andrei Pavelescu, Simple graphs of order 12 and minimum degree 6 contain K_6 minors, submitted January 2020
- Andrei Pavelescu and Elena Pavelescu, Hadwiger numbers of self-complementary graphs, *Graphs and Combinatorics*, accepted January 2020.
- Andrei Pavelescu and Elena Pavelescu, The complement of a NIL graph with thirteen vertices is IL, *Algebraic and Geometric Topology*, accepted April 2019.
- Ramin Naimi, Andrei Pavelescu, and Elena Pavelescu, Escher squares and lattice links, *Topology and its Applications* Vol. 256 (2019), 69 – 72.
- Andrei Pavelescu, Derangements in cosets of primitive permutation groups, *J. Group Theory* 18 (2015), no. 1, 143 – 154.

- Andrei Pavelescu, Some Maximal Commutative Subrings of $M_n(D)$, Communications in Algebra Vol. 41 (2013), Iss. 8, 3032 – 3034
- Andrei Pavelescu, “The Henselization of General Local Rings -Revisited-” (M.Phil. Thesis), May 2006
- Andrei Pavelescu, “Rings Introduced by the Notion of Projective Module” (B.A. Thesis), June 2002

STUDENTS

- Ryan Odeneal, Master Student, August 2019- Present
- Gregory Li, William Howton, Alabama School of Math and Science, undergraduate research May 2019- Present
- Andrew Noel, undergraduate, “Using the Thue-Morse Sequence to Generate a New Set of Solutions for the Prouhet-Tarry-Escott Problem”. May 2014

HONORS/AWARDS

- DMS 1702001 NSF Conference Grant 2017
- Merit Fellowship, University of Southern California Spring 2008
- Top-Off Fellowship, University of Southern California August 2007- August 2009
- Nominated for the “Penn Prize for Excellence in Teaching by Graduate Students” April 2006
- “Good Teaching Award”, Department of Mathematics, University of Pennsylvania Fall 2005
- Honor Scholarship, University of Bucharest October 1998- June 2002

SELECTED TALKS

- “Topological Properties of Maximal Linklessly Embeddable Graphs”, 7th Annual Mississippi Discrete Math Workshop, University of Mississippi, October 2019
- “Intrinsic linking in (self complementary) graphs”, The 9th Congress of Romanian Mathematicians, Galati, Romania July 2019
- “The Complement of a Linklessly Embeddable Graph With at Least Thirteen Vertices is Intrinsically Linked”, 31st Cumberland Conference on Combinatorics, Graph Theory and Computing, University of Central Florida May 2019
- “Hadwiger numbers of self-complementary graphs”, AMS Sectional Meeting, Auburn University, Auburn, AL March 2019

- “Complete Minors of Self-Complementary Graphs”, Colloquium, University of South Alabama August 2017
- “Primitive Groups and Fixed Point Free Elements”, Colloquium, Georgia Southern University March 2017
- “The Proportion of Derangements in Cosets of Primitive Groups”, Commutative Algebra Seminar, The Institute of the Romanian Academy May 2016
- “Derangements in Primitive Groups”, Southern Regional Algebra Conference, Auburn University March 2016
- “Commutative Matrix Rings”, Pure Mathematics Seminar, University of South Alabama November 2015
- “Some Maximal Commutative Matrix Rings”, Arkansas-Oklahoma MAA Sectional April 2013
- “Orderable Groups”, Topology Seminar, Oklahoma State University November 2012

CONFERENCES/WORKSHOPS ATTENDED

- Southern Regional Algebra Conference, UL Lafayette April 2019
- “Geometry of Redistricting”, University of Wisconsin, Madison October 2017
- Southern Regional Algebra Conference, University of South Alabama March 2017
- AMS Joint Meetings, Atlanta, GA January 2017
- Southern Regional Algebra Conference, Auburn University March 2016
- Finite Simple Groups: Thirty Years of the Atlas and Beyond, Princeton University, Princeton, NJ November 2015
- Simple Groups, Representations and Related Topics, University of Cambridge, Cambridge, United Kingdom July 2015
- Fall Red Bud Conference, University of Arkansas, Fayetteville, AR November 2014
- IAS/PCMI Summer School on Geometric Group Theory, Park City, UT July 2012
- Southwestern Group Theory Day, Tucson, AZ November 2011
- Southern California Number Theory Day, Irvine, CA October 2011
- Algebraic Properties of Profinite Groups, Oberwolfach, Germany June 2011

SOFTWARE AND TEACHING ENVIRONMENTS

C++

Maple, Matlab, Mathematica

Microsoft Office, Blackboard, Webassign, WeBWorK, MyMathLab

LANGUAGES

English, Italian, French, Romanian