

CURRICULUM VITAE

MATTHEW F. RAGLAND

3348 Walton Drive
Montgomery, AL 36111
<http://sciences.aum.edu/~mragland>

334-300-2710
mragland@.aum.edu

EDUCATION

- Ph.D., Mathematics, University of Kentucky, 2005
- M.S., Mathematics, University of Kentucky, 2000
- B.S., Mathematics, Morehead State University, 1998

POSITIONS HELD

- Auburn University Montgomery, Montgomery, Alabama, August 2009-Present
Department of Mathematics, Associate Professor
- Auburn University Montgomery, Montgomery, Alabama, August 2008-August 2010
School of Sciences, Associate Dean
- Auburn University Montgomery, Montgomery, Alabama, August 2005-August 2009
Department of Mathematics, Assistant Professor

RESEARCH INTERESTS

- Group Theory
 - Solvable Groups
 - Generalizations of Groups in which Normality is a Transitive Relation
 - Permutability Properties
 - Products of Subgroups
 - Group Coverings
 - Formation Theory
- Applying GAP (Groups, Algorithms, and Programming) software to problems in group theory and other related areas.

RESEARCH PUBLICATIONS

- [1] J. C. Beidleman and M. F. Ragland, Subnormal, permutable, and embedded subgroups in finite groups. *Cent. Eur. J. Math.*, **9** (2011), no. 4, 915–921.
- [2] A. Ballester-Bolinches, A. D. Feldman, M. C. Pedraza-Aguilera, and M. F. Ragland, A Class of Generalized Finite T -Groups. *J. Algebra*, **333** (2011), 128–138.
- [3] K. Al-Sharo, J. C. Beidleman, H. Heineken, and M. F. Ragland, Some Characterizations of Finite Groups in which Semipermutability is a Transitive Relation. *Forum Math.*, **22** (2010), 855-862.
- [4] A. Ballester-Bolinches, R. Esteban-Romero, and M. F. Ragland, Corrigendum: A Note on Finite PST -groups. *J. Group Theory*, **12** (2009), no. 6, 961–963.
- [5] A. Ballester-Bolinches, J. C. Beidleman, J. Cossey, R. Esteban-Romero, M. F. Ragland, and J. Schmidt, Permutable Subnormal Subgroups of Finite Groups. *Arch. Math. (Basel)*, **92** (2009), no. 6, 549–557.
- [6] K. Al-Sharo and M. F. Ragland, Minimality and Locally Defined Classes of Groups. *Ric. Mat.*, **58** (2009), no. 1, 129–133.
- [7] J. C. Beidleman, H. Heineken, and M. F. Ragland, Solvable PST -Groups, Strong Sylow Bases and Mutually Permutable Products. *J. Algebra*, **321** (2009), no. 7, 2022–2027.

- [8] T. S. Foguel and M. F. Ragland, Groups with a Covering by Isomorphic Abelian Subgroups. *Computational Group Theory and the Theory of Groups, Contemp. Math.*, **470** Amer. Math. Soc., Providence, RI, (2008), 75–88.
- [9] J. C. Beidleman, H. Heineken, and M. F. Ragland, On Hypercentral Factor Groups from Certain Classes. *J. Group Theory*, **11** (2008), no. 4, 525–535.
- [10] J. C. Beidleman and M. F. Ragland, The Intersection Map of Subgroups and Certain Classes of Finite Groups. *Ric. Mat.*, **56** (2007), no. 2, 217–227.
- [11] M. F. Ragland, Generalizations of Groups in which Normality is Transitive. *Comm. Algebra*, **35** (2007), no. 10, 3242–3252.
- [12] A. Ballester-Bolinchés, R. Esteban-Romero, and M. F. Ragland, A Note on Finite *PST*-groups. *J. Group Theory*, **10** (2007), no. 2, 205–210.
- [13] M. F. Ragland, On Generalizations of Finite Groups in which Normality is a Transitive Relation. Thesis (Ph.D.)University of Kentucky. (2005), 77 pp. ISBN: 978-0542-03595-1, ProQuest LLC, Thesis.

TALKS GIVEN AND CONFERENCES ORGANIZED

- [1] Speaker for the Southern Regional Algebra Conference held in Lafayette, LA, October 2010:
 - “A Class of Generalized Finite *T*-groups”
- [2] Organizer and Speaker for the symposium Classes of Finite Groups and Permutability Properties held in Lexington, KY, March 2010:
 - “Groups in which Semipermutability is Transitive”
- [3] Speaker for the Zassenhaus Group Theory Conference held in Lancaster, PA, May 2009:
 - “Finite Solvable Groups in which Semipermutability is a Transitive Relation”
- [4] Speaker for the Southern Regional Algebra Conference held in Mobile, AL, March 2009
 - “Solvable *PST*-groups, Mutually Permutable Products, Strong Sylow Bases, and Semipermutability”
- [5] Introductory speaker on behalf of AUM at the ACTM Fall Forum: Multi-Media Mathematics Conference, Montgomery, AL, October 2008
- [6] Speaker for the group theory session of the XXIVth Ohio State University Denison Mathematics Conference held in Columbus, OH, May 2008:
 - “Strong Sylow Systems and Mutually Permutable Products”
- [7] Organizer and Speaker for the Derek Robinson Symposium held in Montgomery, AL, March 2008:
 - “Groups in which certain Factor Groups are *T*-Groups”
- [8] Speaker for the Southern Regional Algebra Conference held in Lafayette, LA, September 2007:
 - “Groups whose Hypercentral Factor Group has a Transitive Normality Relation”
- [9] Speaker for the Zassenhaus Group Theory Conference held in St. Louis, MO, March 2007:
 - “The Intersection Map of Subgroups and Certain Classes of Finite Groups”
- [10] Invited speaker for the Special Session on Computational Group Theory at the Southeastern Section of the AMS held in Davidson, NC, March 2007:
 - “Groups with a Finite Covering by Isomorphic Abelian Subgroups”
- [11] Speaker for the Southern Regional Algebra Conference held in Auburn, AL, November 2006:
 - “Generalization of Groups in which Normality is Transitive”
- [12] Organizer and Speaker for the Jim Beidleman Symposium held in Lexington, KY, September 2006:
 - “*T*-Groups and their Generalizations”
- [13] Speaker for the group theory session of the XXVIIIth Ohio State University Denison Mathematics Conference held in Columbus, OH, May 2006:
 - “A Note on *PST*-Groups”
- [14] Speaker for the Zassenhaus Group Theory Conference held in Montgomery, AL, March 2005:
 - “Groups whose Subnormal Subgroups of Defect Two Permute with all Sylow Subgroups”
- [15] Speaker at the AMS/MAA joint national mathematics meetings held in Atlanta, GA, January 2005:
 - “On Generalizations of Groups in which Normality is Transitive”
- [16] Speaker for the group theory session of the XXVIIth Ohio State University Denison Mathematics Conference held in Columbus, OH, June 2004:
 - “On Generalizations of *T*-groups”

TEACHING EXPERIENCE

- Primary instructor for the following graduate and undergraduate courses at Auburn University Montgomery
 - Math 4970/6970 Theory of Equations
 - Math 4950 Senior Seminar in Mathematics
 - Math 4300/6300 Number Theory
 - Math 4310/6310 Modern Algebra
 - Math 4230/6230 Complex Variables
 - Math 4220/6220 Analysis II
 - Math 4210/6210 Analysis I
 - Math 4200/6200 Discrete Mathematics
 - Math 2660 Linear Algebra
 - Math 2000 Introduction to Higher Mathematics
 - Math 1620 Calculus II
 - Math 1610 Calculus I
 - Math 1150 Precalculus with Trig
 - Math 1120 Precalculus Algebra
 - Math 1100 Finite Mathematics

FACULTY DEVELOPMENT

- Participated in Writing Across the Curriculum (WAC) training for certification to teach WAC Math courses at AUM.
- Participated in the “Track B” training in Blackboard for certification to teach online at AUM.

DEPARTMENT SERVICE

- Member of the AUM Master’s in Computational Algebra Committee, 2010-2011.
- Member of the AUM Mathematics Hiring Committee, 2010-2011.
- AUM Math Club Faculty Advisor, 2005-2011.
- Member of the AUM Mathematics Introduction to Higher Math Course Development Committee, 2010.
- Supervised 48 credit hours of independent study for students, 2005-2010.
- Member of the Tenure and Promotion Guidelines Committee, 2010.
- Advisor for all AUM Math Majors choosing the traditional option 2007-2008.
- Member of the AU/AUM Joint Master’s in Mathematics Proposal Committee, 2008.
- Participated in orientation for new Mathematics students, 2007 and 2008.
- Co-Chair of the AUM Mathematics Hiring Committee, 2006-2007.
- Member of the AUM Mathematics Hiring Committee, 2005-2006.

SCHOOL SERVICE

- School of Sciences representative for the University Committee on Promotion and Tenure, 2011.
- School of Sciences representative for Faculty Senate, 2011.
- AUM School of Sciences website maintainer 2008-2010.
- School of Sciences Liaison for the Learning Comes First Initiative, 2009-2010.

UNIVERSITY SERVICE

- Member of AUM’s Strategic Planning Team, 2011.
- Chair of the AUM Administrator Evaluation Committee, 2010-2011.
- Member of the University Technology Committee 2010-2011.
- Member of the AUM Strategic Enrollment Management Team, 2008-2010.
- Member of the American Re-investment and Recovery Act Committee, 2009.
- Member of the AUM Administrator Evaluation Committee, 2005-2007.

COMMUNITY SERVICE

- Organizer for AUM’s Sonia Kovalevsky Day, 2007-Present.
- University sponsor for the A+ college ready group 2008-2010.
- Participated in the AUM Linux InstallFest, Fall 2009.

- Co-Organizer for the AUM Linux InstallFest, Summer 2008.
- Gave workshops for three of AUM's Sonia Kovalevsky Day events, 2006-2008:
 - “Playing with Polyhedra”
- Proctored the Alabama Statewide Mathematics Contest at AUM, 2006.

PROFESSIONAL SERVICE

- Organizer for the “Southern Regional Algebra Conference” held in Montgomery, Alabama, 2010.
- Organizer for the symposium “Classes of Finite Groups and Permutability Properties” held in Lexington, Kentucky, 2010.
- Faculty host to Professor Khaled Al-Sharo of Al al-Bayt University, Jordan during his sabbatical visit to AUM, Nov. 2007 – May 2008.
- Organizer for the “Derek Robinson Symposium” held in Montgomery, Alabama, 2008.
- Organizer for the “Jim Beidleman Symposium” held in Lexington, Kentucky, 2006.
- Referee for Communications in Algebra.
- Referee for the Journal of Group Theory.
- Referee for the Bulletin of the Malaysian Mathematical Sciences Society.

GRANTS RECEIVED

- PI for AUM's 2010 Sonia Kovalevsky Day Grant (Amount awarded \$2,500)
- PI for AUM's 2009 Sonia Kovalevsky Day Grant (Amount awarded \$2,500)
- Co-PI for AUM's 2008 Sonia Kovalevsky Day Grant (Amount awarded \$3,000)
- Co-PI for AUM's 2007 Sonia Kovalevsky Day Grant (Amount awarded \$2,500)

MISCELLANEOUS

- Received AUM's School of Sciences 2008-2009 Research Award.
- Received AUM's School of Sciences 2007-2008 Teaching Award.
- Member of the American Mathematical Society (AMS) since 1998.
- Member of the Mathematical Association of America (MAA) since 2005.