

Allen Pelley

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Work:
460 McBryde Hall
Mathematics (0123)
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Education:

- Ph.D. in Mathematics**, Syracuse University, May 2007
Syracuse, NY, 13244
- Certificate in University Teaching**, Syracuse University May 2007
- M.S. in Computer Science**, Syracuse University December 2005
- M.S. in Mathematics**, Syracuse University May 2002
- B.S. in Mathematics**, Northwest Nazarene University, August 1999
Nampa, ID, 83686
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Professional Experience:

- Visiting Assistant Professor**, Virginia Polytechnic Institute August 2007 –
and State University present
- Conduct research
 - Teach multivariable calculus and Modern Algebra
- Teaching Associate**, Syracuse University August 1999 – May 2007
- Teach classes and recitations, including statistics and calculus
 - Develop and grade homework, quizzes and tests
 - Facilitate the Mathematics Clinic Table
 - Attend professional development seminars
 - Courses taught and recitations led include: Probability and Statistics, Precalculus, Life Sciences Calculus I, Business Calculus, Calculus I, Calculus II, Calculus III, Elements of Modern Mathematics
- Future Professoriate Program**, participant, Syracuse University January 2004
– May 2007
- Attend professional development seminars
 - Receive mentoring from a faculty advisor
- Course Developer**, College of Engineering and January 2003 –
Computer Science, Syracuse University December 2003
- Write weekly worksheets paralleling Calculus II and Calculus III
 - Oversee undergraduate course facilitator

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- SAIP Study Group Facilitator**, Division of Student Support & Retention, Syracuse University Summer 2001
- Lead study groups
 - Help students develop study skills
- Computer Hardware Support**, Northwest Nazarene University January 1997 – August 2000
- Assemble and maintain desktop computers
 - Diagnose and repair computers on a 1000+ machine network
- Test Writer/Test Proofreader**, National Assessment & Testing, Mu Alpha Theta 1997 – 2007
- Write and proofread tests for math competitions at the state, regional and national levels

Professional Service:

- Reviewer**, Mathematical Reviews (MR), American Mathematical Society (AMS) September, 2006 – present
- Mathematics Graduate Organization officer**, Mathematics Department of Syracuse University, Duties include those of one of the following offices plus helping to plan the New York State Regional Graduate Mathematics Conference May 2000 – May 2006
- **Undergraduate committee representative** May 2004 – May 2006
Handle matters regarding the mathematics undergraduate program, including revising the requirements for a B.S. May 2002 – May 2003
 - **Colloquium organizer** May 2003 – May 2004
Arrange Colloquia for graduate students in mathematics
 - **Graduate Student Organization senator** May 2001 – May 2003
Attend GSO senate meetings; serve on a committee (finance committee)
 - **Secretary** May 2000 – May 2001
Keep minutes of MGO meetings, send out announcements

Awards and Distinctions:

- Donald E. Kibbey Prize in Mathematics**, Syracuse University March 30, 2007
- Partially supported by Professor Kleiner under **NSA grant** H98230-06-1-0043 (Mark Kleiner, Principal Investigator) Summer 2006
- Outstanding Teaching Assistant**, Syracuse University 2005-2006

Graduate School Research Fellowship, Syracuse University Summer 2001,
2003, 2006

Mathematics Department Research Grant, Syracuse University Summer 2001,
2002, 2003, 2004

Publications:

Mark Kleiner and Allen Pelley, “Admissible sequences, preprojective representations of quivers, and reduced words in the Weyl group of a Kac-Moody algebra.” *Int Math Res Notices* Vol. 2007: article ID rnm013, 27 pages, published on January 1, 2007, DOI 10.1093/imrn/rnm013.

Edward L. Green, Nicolas Loehr, and Allen N. Pelley “Reflection Modules”
Manuscript in progress

Talks and Presentations:

“Representations of Quivers, (+)-Admissible Sequences, and Reduced Words,”
Virginia Tech Algebra Seminar, August 27, September 3, September 10, 2007.

“Graphs, Quadratic Forms, and Groups,” Colorado State University – Pueblo, March
2, 2008.

“Representations of Quivers and Weyl groups of Kac-Moody Algebras,” Syracuse
University Algebra Seminar, September, 2006.

“The Mathematics behind *Linked* by Barabási,” guest lecture at S.I. Newhouse
School of Public Communications, Syracuse University, April 28, 2006.

“(+)–Admissible Sequences and Reduced Words,” 32nd Annual New York State
Regional Graduate Mathematics Conference, Syracuse University, April 8, 2006.

“Annihilating Sequences for A_n and reduced words in S_{n+1} ,” Syracuse University
Student Seminar in Mathematics, March 7, 2006.

“Why Math is Fun,” Kendrick High School, Columbus, GA, January 3, 2006.

“Practical Advice for Graduate Students” Mathematics Departmental Orientation,
Syracuse University, August 2004, 2005, 2006.

Featured in “Leading Recitations: A Multimedia Tool for Professional
Development,” (CD-ROM), Joanna O. Masingila, Christina C. Pfister, Syracuse
University, 2005

Introduction to Lie Algebras and Representation Theory section 1.1, James E.
Humphreys, Syracuse University Algebra Seminar, Spring 2003