

William Hardesty

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Athens, Georgia

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Education

- **University of Georgia** Athens, Georgia
Ph.D. Mathematics Fall 2011-May 2016 (anticipated)
- **University of Maryland, Baltimore County** Baltimore, Maryland
B.S. Mathematics May 2010

Publications

1. Support varieties of line bundle cohomology groups for $SL_3(k)$, *J. Algebra* 448 (2016), 127-173.
2. On support varieties and the Humphreys conjecture in type A , arXiv:1507.00970 (submitted).

Invited Presentations

- AMS special session on Lie Theory, Representation Theory and Geometry - Athens, Georgia (March 2016)
 - *To Be Determined*
- AMS special session on Categorical and Geometric Methods in Representation Theory - Seattle, Washington (January 2016)
 - *To Be Determined*
- 8th Southeastern Lie Theory Workshop on Algebraic and Combinatorial Representation Theory - Raleigh, North Carolina (October 2015)
 - *On Support Varieties and the Humphreys Conjecture in type A*
- Southwest Group Theory Day 2015 - Tucson, Arizona (March 2015)
 - *Support varieties of line bundle cohomology groups for $SL_3(k)$*
- UGA Algebra Seminar - Athens, Georgia (September 2014)
 - *Support varieties of line bundle cohomology groups for $SL_3(k)$*
- Mock AMS Conference - Athens, Georgia (July 2014)
 - *An Introduction to Borel-Moore Homology*
- Mock AMS Conference - Athens, Georgia (June 2013)
 - *Cohomology Rings*
- Mock AMS Conference - Athens, Georgia (July 2012)

– *Adjoint Functors in Category Theory*

- Joint Mathematics Meetings (JMM) - San Francisco, California (January 2010)

– *Nucleation and Spinodal Decomposition in Ternary-component Alloys*

Conferences Attended

- AMS special session on Lie Theory, Representation Theory and Geometry - Athens, Georgia (March 2016)
- AMS special session on Categorical and Geometric Methods in Representation Theory - Seattle, Washington (January 2016)
- 8th Southeastern Lie Theory Workshop on Algebraic and Combinatorial Representation Theory - Raleigh, North Carolina (October 2015)
- PCMI Graduate Summer School on Geometry of Moduli Spaces and Representation Theory - Midway, Utah (July 2015)
- Southwest Group Theory Day 2015 - Tucson, Arizona (March 2015)
- Representation theory and K-theory, in celebration of Eric Friedlander's 70th birthday - Los Angeles, California (May 2014)
- Southeastern Lie Theory Workshop 2014 - Athens Georgia (May 2014)
- International Conference on Representation Theory VI - Zhangjiajie, China (June 2013)
- III International Symposium on Groups, Algebras and Related Topics - Beijing, China (June 2013)

Teaching Experience

- Fall 2013: Math 1113 (Precalculus), University of Georgia
- Spring 2014: Math 2250 (Calculus I), University of Georgia
- Fall 2014: Math 1113 (Precalculus), University of Georgia
- Fall 2015: Math 2250 (Calculus I), University of Georgia

Awards, Grants & Honours

Graduate Student Travel Grant to the Joint Mathematics Meetings 2016
University of Georgia, Graduate Student Assistantship 2011-2013
Outstanding Senior in Mathematics, University of Maryland, Baltimore County 2010
Outstanding Graduating Senior in Mathematics, University of Maryland, Baltimore County 2009

References

- Daniel Nakano, Distinguished Research Professor
Department of Mathematics, University of Georgia
Email: nakano@math.uga.edu
- Henning Haahr Andersen, Professor
Department of Mathematics, Aarhus University
Email: mathha@imf.au.dk
- Jon Carlson, Emeritus Professor
Department of Mathematics, University of Georgia
Email: jfc@math.uga.edu
- William Graham, Professor
Department of Mathematics, University of Georgia
Email: wag@math.uga.edu
- Robert Varley, Professor (Teaching Reference)
Department of Mathematics, University of Georgia
Email: rvarley@math.uga.edu