

Amanda I. Beecher

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EDUCATION

- 2007 Ph.D. Mathematics, University at Albany, SUNY, Albany, NY
Advisor: Alexandre Tchernev
Thesis Title: *Combinatorial Description of a Multigraded Module*
2003 M.A. Mathematics, University at Albany, SUNY, Albany, NY
2001 B.A. Mathematics, University at Albany, SUNY, Albany, NY

RESEARCH INTERESTS

Commutative Algebra, Algebraic Combinatorics, Algebraic Geometry

PUBLICATIONS AND PREPRINTS

Upper Bounds for Betti Numbers of Multigraded Modules
Accepted for publication in *Journal of Algebra*.

Combinatorial Description of a free resolution
preprint.

AWARDS

Excellence in Teaching for Teaching Assistants, University at Albany, Fall 2003.

TEACHING EXPERIENCE

Catalog Name	Course Title	Semester Taught
Math 101	Algebra and Calculus I	Fall 2002, Spring 2003
Math 108	Elementary Statistics	Summer 2003
Math 111	Algebra and Calculus II	Fall 2003, Spring 2004
Math 112	Calculus I	Fall 2004, Summer 2005, Fall 2006
Math 113	Calculus II	Fall 2005, Spring 2005, 2006, 2007
Math 214	Multivariable Calculus	Fall 2006

In each of these courses I was responsible for writing the syllabus that outlined the course, creating a lesson plan for each class, choosing exercises for assignments and writing exams, including the final exam.

INVITED TALKS

1. *Tutte Polynomial*
 Summer Undergraduate Research Experience,
 State University of New York College at Potsdam, Potsdam, NY,
 June 2007.
2. *Matroid Theory*
 Graduate Student Combinatorics Conference,
 University of Washington, Seattle, WA, April 2007.
3. *Combinatorial topology of matroids and free resolutions of multi-graded modules.*
 Special Session on Commutative Algebra and Algebraic Geometry,
 Davidson, NC, March 2007.
4. *A Free Resolution from Simplicial Complexes*
 Capital Region Algebra and Number Theory Seminar,
 University at Albany, SUNY, Albany, NY, November 2006.
5. *A Combinatorial Description of a Free Resolution of a finite Multi-graded Module*
 Route 81 Conference,
 Syracuse University, Syracuse, NY, September 2006.
6. *Betti Numbers of Finite Multigraded Modules*
 Workshop on Free Resolutions,
 Cornell University, Ithaca, NY, 2006.
7. *Bounds for Betti Numbers of Multigraded Modules*
 Capital Region Algebra and Number Theory Seminar,
 Skidmore College, Saratoga Springs, NY, November 2005.

CONFERENCES AND WORKSHOPS ATTENDED

1. *Discrete Math Day*
 College of Holy Cross, Worcester, MA, November 2006.
2. *Discrete Math Day*
 Skidmore College, Saratoga Springs, NY, September 2006.
3. *Route 81 Conference*
 Syracuse University, Syracuse, NY, September 2006.
4. *Fields Institute Summer School & Conference on Valuation Theory and Integral Closure in Commutative Algebra*
 University of Ottawa, Ottawa, ON, CA, July 2006.

5. *Summer School on Free Resolutions of Monomial Ideals*
Cornell University, Ithaca, NY, May 2006.
6. *Discrete Math Day*
University at Albany, Albany, NY, March 2006.
7. *Route 81 Conference*
Queen's University, Kingston, ON, CA, October 2005.
8. *1009th AMS meeting*
Bard College, Annandale-on-Hudson, NY, October 2005.
9. *Nebraska Commutative Algebra Conference: WiegandFest*
University of Nebraska - Lincoln, Lincoln, NE, May 2005.
10. *30th Annual Spring Lecture Series in Mathematical Sciences*
Commutative Algebra: Recent Developments in Tight Closure
University of Arkansas, Fayetteville, AR, April 2005.
11. *Route 81 Conference, in honor of Graham Evans*
Cornell University, Ithaca, NY, October 2004.
12. *CBMS Conference on Non-Positive Curvature in Group Theory*
Rensselaerville Institute, Rensselaerville, NY, August 2004.
13. *Albany Group Theory Conference*
Rensselaerville Institute, Rensselaerville, NY, October 2004.
14. *Albany Group Theory Conference*
Rensselaerville Institute, Rensselaerville, NY, October 2004.

SERVICE AND MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Coordinator,
Graduate Student Seminar, Fall 2004- Spring 2006
- Graduate Student Coordinator,
Noetherian Ring Seminar, Fall 2005-Spring 2006
- *American Mathematical Society*
- *Association for Women in Mathematics*

REFERENCES

Available upon request.