

Curriculum Vitae

JANET STRIULI

Contact information

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Education

August 2005 Ph.D. in Mathematics, University of Kansas.
Thesis: *Extensions of modules and uniform Artin-Rees properties.*
Advisor: Professor Craig Huneke.
August 2001 Master Degree in Mathematics, University of Kansas.
November 1998 Laurea in Matematica, Universita' degli Studi di Trieste, Italy.

Research Interests

Commutative Algebra, Homological Algebra.

Career

Aug. 2008– Assistant Professor, tenure track,
Department of mathematics, University of Fairfield, Fairfield, CT.
Aug. 2005–Aug. 2008 Marilyn Hitz Research Assistant Professor.
Department of Mathematics, University of Nebraska–Lincoln, NE.
Aug. 2000–Aug. 2005 Ph.D. Student, Graduate Teaching/Research Assistant.
Department of Mathematics, University of Kansas, Lawrence, KS.
Aug. 1999 - Aug. 2000 Mathematics and Physics Instructor.
Liceo Scientifico e Classico, Don Bosco, Pordenone, Italy.
May-June 1999 Trainee at Electrolux and Physics Instructor.

Grant Support and Awards

January 2008 Recipient "Certificate of Recognition for Contribution to Students"
UNL Parents Association
January 2008 ONR-NSA Grant (\$700).
AWM Workshop, Joint Meeting, San Diego, CA.
June 2007 AWM-NSF Travel Grant (\$465).
Banff International Research Station, Canada.
Summers 2001-2004 U.G. Mitchell Graduate Scholarship, University of Kansas.
June 2000 - Dec. 2000 University of Trieste Grant (\$8,600).
University of Kansas, Lawrence, KS.
May 1998 - May 1999 Italian Center of Research (CNR) Grant (\$3,500).
University of Trieste, Italy.
Feb. 1997 - Jul. 1997 Scholarship for Erasmus program, University of Granada, Spain.

Service

- Jan. 2008 Organizer (with Lars W. Christensen and S. Sather-Wagstaff),
Progress in Commutative Algebra,
AMS Special Session, Joint Mathematics Meeting, San Diego, CA.
- 2007–2008 Organizer *Commutative Algebra Seminar*, University of Nebraska.
- 2007-2008 Organizer *Commutative Algebra Reading Seminar*, University of Nebraska.
- 2007 Guest editor for a volume of *Journal of Commutative Algebra*.
- 2007 Referee for the Journal of Pure and Applied Algebra.

Publications and Preprints

1. *On extensions of modules.*
Journal of Algebra 285 (2005), no. 1, 383–398.
2. *A uniform property for syzygies in rings of dimension one and two.*
Journal of Pure and Applied Algebra 210 (2007), 577–588.
3. *Uniform Artin-Rees in rings of dimension one and two.*
Rendiconti dell'Istituto di Matematica dell'Universita' di Trieste; accepted.
4. *Finite Gorenstein representation type implies simple singularity.*
With Lars W. Christensen, Greg Piepmeyer and Ryo Takahashi.
Advances in Mathematics; accepted.
5. *Construction of big indecomposable modules.*
With Andrew Crabbe. Preprint.
6. *Degree of the Hilbert polynomial for cohomology modules*
With Andrew Crabbe, Daniel Katz, Emanoil Theodorescu. Preprint.
7. *Growth of Bass numbers.*
With Lars W. Christensen and Oana Veliche. Preprint.

Talks at Conferences and Workshops

- May 2008 *Degree of the generalized Hilbert polynomial and applications*
Commutative Algebra: Connections with Algebraic Topology and Representation Theory
University of Nebraska-Lincoln, Lincoln, NE.
- Jan. 2008 *Growth of the Bass Numbers.* AWM Workshop.
Joint Mathematical Meeting, San Diego CA.
- Sep. 2007 *On the number of isomorphism classes of totally reflexive modules.*
KuMuNu VIII, University of Nebraska–Lincoln, Lincoln, NE.
- Jun. 2007 *Finite Gorenstein representation type implies simple singularity.*
Commutative Algebra and its Interaction with Algebraic Geometry
BIRS, Banff AB, Canada.
- May 2007 *Finite Gorenstein representation type implies simple singularity.*
Advances in Algebra and Geometry, MSRI, Berkeley CA.
- Oct. 2006 *Uniform properties for infinite resolutions.*
Regional Meeting, University of Nebraska-Lincoln, Lincoln, NE.
- Apr. 2006 *Artin-Rees for syzygies in dimension two.* AMS Special Session (#1015).
Commutative Algebra. Florida International University, Miami, FL.
- Aug. 2005 *Complete resolutions and Tate cohomology.*
Supporting talk, Workshop in Commutative Algebra.
Minnnowbrook Adirondack Conference Center, Syracuse, NY.

- Jan. 2005 *Artin-Rees for syzygies*. AMS Special Session (#1005).
Commutative Algebra. Atlanta, GA.
- Oct. 2004 *Extensions of Modules*. AMS Special Session (#999).
Local and Homological Algebra. Vanderbilt University, Nashville, TN.
- Apr. 2004 *Extensions of modules*. AMS Special Session (#997).
Commutative Algebra. Rider University, Lawrenceville, NJ.

Invited Lectures and colloquia¹

- Feb. 2008 *Extracting information from free resolutions*. (Colloquium)
Department of Mathematics, Fairfield University, OH.
- Feb. 2008 *Extracting information from free resolutions*. (Colloquium)
Department of Mathematics, Xavier University, OH.
- Feb. 2008 *Extracting information from free resolutions*. (Colloquium)
Department of Mathematics, University of Akron, OH.
- Nov. 2007 *Finite representation type and totally reflexive modules*.
(Seminario di Algebra e Geometria)
Dipartimento di Matematica, Università di Trieste, Italy.
- Nov. 2007 *Growth of the Bass numbers*. (Algebra Seminar)
Department of Mathematics, University of Missouri-Columbia, Columbia, MO.
- Nov. 2007 *Finite properties of infinite resolutions*. (Colloquium)
Department of Mathematics, Cal Poly, San Luis Obispo, CA.
- Oct. 2007 *What is finite in an infinite resolution?* (Algebra Seminar)
Department of Mathematics, Texas Tech University, Lubbock, TX.
- Apr. 2007 *Finite properties of infinite resolutions*. (Colloquium)
Department of Mathematics, North Dakota State University, Fargo, ND.
- Mar. 2007 *A Ring with finitely many totally reflexive modules is Gorenstein*. (Alg. Seminar)
Department of Mathematics, University of California, Riverside, CA.
- Feb. 2007 *\mathcal{G} -cover and the residue field*. (Algebra Seminar)
Department of Mathematics, University of Kansas, Lawrence, KS.
- Nov. 2006 *A short proof of a theorem of Braun*. (Commutative Algebra Seminar)
Department of Mathematics, University of Utah, Salt Lake City, UT.
- Oct. 2004 *Short Exact Sequences*. (Commutative Algebra Seminar)
Department of Mathematics, University of Nebraska, Lincoln, NE.
- May 2004 *An extension of Miyata's Theorem*. (Seminario di Algebra e Geometria)
Università degli Studi di Trieste, Dip. di Matematica, Trieste, Italy.

Expository Lectures

- Feb. 2008 *Catalan Numbers: from the definition to open problems*
Undergraduate Lecture, University of Fairfield, CT
- Feb. 2008 *Catalan Numbers: from the definition to open problems*
Undergraduate Lecture, Xavier University, OH
- Nov. 2007 *Why are free resolutions important in commutative algebra?*
Undergraduate Lecture, Università di Trieste, Italy.
- Jul. 2007 *Three problems in Graph Theory*, Summer Camp All Girls/All Math,
University of Nebraska, Lincoln, NE.
- May 2006 *Free resolutions*, AWM Chapter, University of Kansas, Lawrence, KS.

¹Seminars at home institutions not listed

Conferences and Summer Schools, one week or longer

- Jun. 2007 *Commutative Algebra and its Interaction with Algebraic Geometry.*
Workshop. BIRS, Banff, AB, Canada.
- Apr. 2007 *Advances in Algebra and Geometry.*
Conference. MSRI, Berkeley, CA.
- Aug. 2005 *Minnowbrook Workshop on Commutative Algebra.*
Syracuse University Conference Center, Minnowbrook, NY.
- Jul. - Aug. 2004 *Interactions between Homotopy Theory and Algebra*
Summer School. University of Chicago, Chicago, IL.
- May - Jun. 2004 *Commutative Algebra and Interaction with Algebraic Geometry*
Summer School. ICTP, Trieste (Italy).
- Jul. 2003 *Commutative Algebra: Presentations by Young Researchers.*
Conference. Snowbird Summer Resort, Snowbird, Utah.
- Jun. 2003 *Lisbon Conference on Commutative algebra.*
Lisbon, Portugal.
- Feb. 2003 *Interaction with Homological Algebra and Representation theory.*
MSRI, Berkeley, CA.
- Dec. 2003 *Local and Birational Algebra.* MSRI, Berkeley, CA.
- Jun. 2002 *Current Trends in Commutative Algebra.* CIRM, Levico, Italy.
- Sep. 2002 *Introductory Workshop in Commutative Algebra.* MSRI, Berkeley, CA.
- May 2002 *Solving systems of polynomial equations.*
CBMS Conference. Texas A&M University, College Station, TX.
- Jul. 2001 *International School of COCOA VII*
Queen's University, Canada.
- Jul. - Aug. 1999 *Summer Course in Mathematics.*
Scuola Matematica Interuniversitaria, Perugia, Italy.

Other Conferences

- Apr. 2008 *Maurice Auslander Distinguish Lectures,* Woods Hole, MS
- 2000–2007 *Algebra Days KuMuNu II–VII,* Lawrence, KS – Lincoln, NE
- Jan. 2007 *AMS–MAA Joint Meeting,* New Orleans, LA.
- Aug. 2006 *MathFest,* Knoxville, TN.
- May 2006 *Homological Conjectures in Commutative Algebra.*
Snowbird Conference Center, Snowbird, Utah.
- Oct. 2005 AMS Special Session (#1011), University of Nebraska, Lincoln.
- Apr. 2003 *Bluegrass Algebra Conference and Hayden-Howard Lecture.*
University of Kentucky, Lexington, KY.
- Mar. 2001 AMS Special Session (#964), University of Kansas, Lawrence.

Professional Development

- 2006-2007 *Project NExT Fellow* (Sepia Dot).
A program for recent Ph.D.s in the mathematical science,
with three workshops of one week.
- 2007 *Getting started as successful grant writer,* University of Nebraska-Lincoln.
- 2006 Semester long *teaching mentoring program.*
Mentor: Jim Lewis. University of Nebraska-Lincoln.

Courses Taught

- 2005–present *University of Nebraska-Lincoln*, Lincoln, NE.
Math 918, Integral Closure (graduate course).
Math 417, Abstract Algebra (group theory).
Math 314, Matrix Algebra.
Math 310, Introduction to Modern Algebra.
Math 221/821, Differential Equations.
Math 208, Calculus III.
Math 203, Contemporary Math.
Math 189H, University Honors Seminar: The Joy of Numbers.
- 2000-2004 *University of Kansas*, Lawrence, KS.
Math 122, Calculus II.
Math 121, Calculus I.
Math 116, Calculus II for Business.
Math 115, Calculus I for Business.

Professional Membership

- American Mathematical Society,
- Mathematical Association of America,
- Association for Women in Mathematics.