

Christina Eubanks-Turner

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| EDUCATION | <p>University of Nebraska-Lincoln Ph.D., Mathematics, Advisor: Sylvia Wiegand May 2008 M.S., Mathematics August 2004</p> <p>Xavier University of Louisiana B.S., Mathematics, <i>cum laude</i>, May 2002</p> |
| PROFESSIONAL APPOINTMENTS | <p>Assistant Professor Aug. 2008 - present Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA.</p> |
| INTERESTS | <p>Commutative Algebra, Ring and Module Theory, Graph Theory, Undergraduate Teaching and Learning, Mathematics Teacher Education, Mathematics Outreach, Mathematical Sciences Diversification</p> |
| TEACHING EXPERIENCE | <p>University of Louisiana at Lafayette, Lafayette, LA</p> <p><i>Instructor, STAGE Summer Program</i> Jun. 2011, Jun. 2012 Crash Course: Intro to Coding Theory</p> <p><i>Instructor</i> Aug. 2008 - present Intro to Graph Theory (special topics course) Applied Calculus (traditional; online course designer) Calculus I Calculus II Number Theory and Abstract Algebra for High School Teachers Linear Algebra (graduate credit course) Modern Algebra I (graduate credit course) Modern Algebra II (graduate credit course)</p> <p>Louisiana State University, Baton Rouge, LA</p> <p><i>Instructor, Louisiana Math and Science Teacher Institute</i> Jun. 2010 - Jul. 2010 Pre-Thesis Seminar Instructor Leadership Seminar (Guest Lecturer)</p> <p>University of Nebraska-Lincoln, Lincoln, NE</p> <p><i>Instructor, NU Teach Institute</i> Jul. 2008 Functions of Algebra and Geometry for High School Teachers</p> <p><i>Graduate Assistant, Nebraska IMMERSE</i> Jun. 2007 - Aug. 2007 Abstract Algebra</p> <p><i>Teaching Fellow, Project Fulcrum</i> Aug. 2004 - May 2005 Middle school math and science curriculum development and implementation</p> <p><i>Instructor</i> Aug. 2002 - Aug. 2008 Intermediate Algebra College Algebra Mathematics Matters (course for pre-service elementary teachers)</p> |

Recitation Instructor
 Calculus I
 Calculus II

Jul. 2002 - Aug. 2004

PUBLICATIONS

C. Eubanks-Turner, I. Fene, B. Thibodeaux, *The Interlace Polynomial of the Wheel Graph* (in preparation).

C. Eubanks-Turner, A. Li, *Graphical Properties of the Bipartite Subgraph of $\text{Spec}(\mathbb{Z}[x])$* (in preparation).

E. Celikbas, **C. Eubanks-Turner**, S. Wiegand, *Prime Ideals of Two-Dimensional Quotients of Mixed Power Series/Polynomial Rings* (in preparation).

C. Eubanks-Turner, Assessing Student Presentations in an Inquiry-Based Learning Course (to appear, 16th Annual Conference on Research in Undergraduate Mathematics Education proceeding)

C. Eubanks-Turner, M. Luckas, and S. Saydam, *Prime ideals in Birational Extensions of Two-Dimensional Power Series Rings*, *Communications in Algebra* (2013), 41: 2, 703-735.

E. Celikbas, **C. Eubanks-Turner**, *The Projective Line Over the Integers*, *Progress in Commutative Algebra 2*, De Gruyter (2012), 221-240.

SUPERVISED
 UNDERGRADUATE
 PUBLICATIONS

I. Fene, M. Gonzalez, J. Johnson, M. Lennon, K. Pr'Out, *List Decoding Algorithms for Reed-Solomon Codes*, *Proceedings of the 2011 Annual National Technical Association Conference*, Washington D.C.

E. Reynoso, B. Thibodeaux, A. Urquiza, A. Wheatley, D. Young, *Division Algorithm Decoding for Reed-Solomon Codes* (in preparation).

UNDERGRADUATE
 ADVISING

Itehomme Fene, STAGE Program-Summer 2011, SURE Project-Academic Year 2012-2013

Marlene Gonzalez, Jessica Johnson, Kathinetta Pr'Out, STAGE Program-Summer 2011

Eduardo Reynoso, Amanda Urquiza, Ashley Wheatley, Derek Young, STAGE Program-Summer 2011

Brandy Thibodeaux, STAGE Program-Summer 2011, SURE Project-Academic Year 2012-2013

GRANTS AWARDED

Louisiana Mathematics Masters in the Middle (LaM³) (Co-PI) Jul. 2012
 National Science Foundation, DUE-1240054 \$1,868,895

Supervised Undergraduate Research Experiences May 2012
 Louisiana Board of Regents (support for two undergraduate researchers) \$8,000

MSRI Math Circles Seed Grant Oct. 2011
 Mathematical Sciences Research Institute \$2,000

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| The Louisiana Noyce Teaching Fellows/Master Teaching Fellows Planning Project | Aug. 2011 |
| National Science Foundation, DUE-1136417 | \$127,449 |
| AWM Mentoring Travel Grant | Aug. 2011 |
| Association for Women in Mathematics | \$3,300 |
| A TEAM (Tactile Experiences with Algebraic Models) Approach to Proficiency in the Middle Grades) (Co-PI) | April 2011 |
| Louisiana Board of Regents | \$259,629 |
| Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Minorities in Mathematical Sciences: A Pilot Project (Co-PI) | Feb. 2011 |
| National Science Foundation, DMS-1043223 | \$548,880 |
| Acadiana Math Teachers' Circle 2011 Summer Retreat | Jan. 2011 |
| Community Foundation of Acadiana - Pugh Family Fund | \$12,000 |
| Electronic Course Design Grant | Oct. 2010 |
| University of Louisiana at Lafayette | \$2,500 |
| Travel Grant for Emerging Faculty | Apr. 2010 |
| Louisiana Board of Regents | \$1,200 |
| Travel Grant for Emerging Faculty | Jan. 2009 |
| Louisiana Board of Regents | \$1,200 |
| Summer Research Grant | Jun. 2009 |
| University of Louisiana at Lafayette | \$4,800 |

HONORS AND
AWARDS

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| LA/MS Section NExT Fellow | Mar. 2009 - Mar. 2010 |
| Mathematical Association of America | |
| Project NExT Fellow | Jun. 2008 - Jun. 2010 |
| Mathematical Association of America | |
| Visiting Scholar | Jun. 2008 |
| Educational Testing Services | |
| Certificate of Recognition for Contributions to Students | Feb. 2007 |
| University of Nebraska-Lincoln | |
| Mentoring Through Critical Transition Points Fellowship | Jan. 2006 - Aug. 2006 |
| University of Nebraska-Lincoln | |
| Graduate Assistance in Areas of National Need Fellowship | Aug. 2005 - Aug. 2006 |
| University of Nebraska-Lincoln | |
| Project-Fulcrum Fellowship | Aug. 2004 - May 2005 |
| University of Nebraska-Lincoln | |
| Computer Science, Engineering and Mathematics Scholarship | Aug. 2002 - Aug. 2004 |
| University of Nebraska-Lincoln | |
| Larson Fellowship | Aug. 2002 - Aug. 2004 |
| University of Nebraska-Lincoln | |

INVITED
PRESENTATIONS

Graphical Properties of the Bipartite Subgraph of $\text{Spec}(\mathbb{Z}[x])$ Oct. 2012
Special Session on ALgebraic Structures over Commutative Rings, American Mathematical Society Fall Sectional Meeting, Tulane University, New Orleans, LA.

Prime Ideals in Quotients of Low-Dimensional Mixed Polynomial/Power Series Rings Mar. 2012
The Consortium for Order in Algebra and Logic, University of Florida, Gainesville, FL.

Making Myself Useful... Oct. 2011
Mathematics Education Seminar, University of Nebraska-Lincoln, Lincoln, NE.

Error Detection and Correction Mar. 2011
Center for Undergraduate Research in Mathematics Spring Research Conference, Brigham Young University, Provo, UT.

Mad Veterinarian Jun. 2010
Acadiana Math Teachers' Circle Summer Retreat, Lafayette, LA.

Prime Ideals in Birational Extensions of Power Series Rings Apr. 2010
Special Session in Commutative Ring Theory, American Mathematical Society Spring Sectional Meeting, Macalester College, St. Paul, MN.

Prime Ideals in Mixed Polynomial/Power Series Rings Jan. 2009
The Granville-Brown-Hayes Session of Presentations by Recent Doctoral Recipients, The Joint Mathematics Meetings, Washington, D.C.

Prime Ideals in Birational Extensions of Power Series Rings Mar. 2010 - Apr. 2010
Algebra Seminar, University of Louisiana at Lafayette, Lafayette, LA (presentation consisted of four expository talks).

OTHER
PRESENTATIONS

Forming a Math Circle May 2011
Enhancing Content for Comprehension in Undergraduate Mathematics Workshop, University of Louisiana at Lafayette, Lafayette, LA.

Prime Spectra of Birational Extension Rings Jan. 2011
Association for Women in Mathematics Workshop, Joint Mathematics Meetings, New Orleans, LA.

Prime Ideals in Extensions of Power Series Rings Oct. 2010
Southern Regional Algebra Conference, University of Louisiana at Lafayette, Lafayette, LA.

Spectacular Skeletons: Prime ideals in rings of power series over the integers Jan. 2008
Association for Women in Mathematics Workshop, Joint Mathematics Meetings, San Diego, CA (Poster Presentation).

Spectacular Specs: Prime ideals of rings over the integers Mar. 2007
Mathematical Association of America Sectional Meeting, Dakota State University, Madison, SD.

Prime Ideals in Birational Extensions of Two-Dimensional Power Series Rings Mar. 2007
Graduate Student Seminar, University of Nebraska-Lincoln, Lincoln, NE.

INVITED
CONFERENCES &
WORKSHOPS

- Combinatorial Commutative Algebra and Applications** Dec. 2012
Mathematical Sciences Research Institute, Berkeley, CA.
- Common Core State Standards Math Training for University Faculty** Nov. 2012
University of Louisiana at Lafayette, Lafayette, LA.
- IAS/PCMI Workshop for Mentors of Undergraduate Mathematics Research by Minority Students** Jul. 2012
Park City Math Institute, Park City, UT.
- Enacting Standards for Mathematical Practices Conference** Oct. 2011
University of Nebraska-Lincoln, Lincoln, NE.
- Mathematical Field of Dreams Conference** Oct. 2010
University of Iowa, Iowa City, IA.
- PREP Workshop on Inquiry Based Learning** May 2010
Mathematical Association of America, University of Texas-Austin, Austin, Texas.
- How to run a Math Teachers' Circle Workshop hosted by AIM** Jul. 2009
Mathematical Association of America Carriage House Conference Center, Washington, D.C.
- Promoting Diversity at the Graduate Level in Mathematics: a National Forum** Oct. 2008
Mathematical Sciences Research Institute, Berkeley, CA.
- Negotiating an Ideal Faculty Position Workshop** Oct. 2007
Rice University, Houston, TX.
- Summer School in Commutative Algebra** Jun. 2005
Mathematical Sciences Research Institute, Snowbird, UT.
- Infinite Possibilities Conference** Apr. 2004
Spelman College, Atlanta, GA.

PROFESSIONAL
SERVICE

Referee

Journal of Algebra and its Applications

Conferences, Seminars and Workshops

- Panelist** Nov. 2012
Alliance Ph.D.'s Tell Their Stories, 2012 Field of Dreams Conference, Phoenix, AZ.
- Chair and Organizer** Jan. 2012
Louisiana Noyce Capacity Building Summit, University of Louisiana at Lafayette, Lafayette, LA.
- Chair and Organizer** Oct. 2011
Special Session on Commutative Algebra, American Mathematical Society Fall Central Section Meeting, Lincoln, NE
- Panelist** Mar. 2011
Center for Undergraduate Research in Mathematics Spring Research Conference, Brigham Young University, Provo, UT.

- Organizer** Oct. 2010
Southern Regional Algebra Conference, University of Louisiana at Lafayette, Lafayette, LA.
- Founder and Organizer** Sep. 2009 - Present
Acadiana Math Teachers' Circle, Lafayette, LA.
- Facilitator** Jul. 2008
Xavier University Math Science Institute, New Orleans, LA.
- Panelist** May 2007
The Gallup Leadership Summer Institute, University of Nebraska-Lincoln, Lincoln, NE.
- Panelist** Feb. 2007
30th Annual Big XII Conference on Black Student Government, University of Nebraska-Lincoln, Lincoln, NE.
- Organizer** Jan. 2006
Special Session on Leadership, Nebraska Black Leadership Symposium, University of Nebraska-Lincoln, Lincoln, NE.

Mentor

- Mentor and Undergraduate Research Advisor** Jan. 2010 - Present
Louis Stokes Louisiana Alliance for Minority Participation.
- Mentor** Oct. 2009 - Present
National Alliance for Doctoral Studies in Mathematics.

UNIVERSITY & DEPARTMENTAL SERVICE

Conferences, Seminars and Workshops

- Organizer** Aug. 2011 - Dec. 2011
Algebra Seminar, University of Louisiana at Lafayette, Lafayette, LA.
- Facilitator** Jan. 2008
Math 807T Orientation Workshop, University of Nebraska-Lincoln, Lincoln, NE.
- Facilitator** Sep. 2007
Math 804T Orientation Workshop, University of Nebraska-Lincoln, Lincoln, NE.

Committees and Boards

- Member** Aug. 2010 - Present
Math Department Online Courses Committee, University of Louisiana at Lafayette, Lafayette, LA.
- Member** Aug. 2010 - Present
Community Service Committee, University of Louisiana at Lafayette, Lafayette, LA
- Member** Sep. 2008 - Present
Graduate Faculty, University of Louisiana at Lafayette, Lafayette, LA.
- Committee Member** Sep. 2008 - Present
Math Department Graduate Recruitment Committee, University of Louisiana at Lafayette, Lafayette, LA.

Committee Member Sep. 2008 - Present
Mathematics Education Committee, University of Louisiana at Lafayette, Lafayette, LA.

Committee Member Oct. 2007 - Jan. 2008
Mathematics Department Search Committee for tenure track position in Analysis, University of Nebraska-Lincoln, Lincoln, NE.

Board Member Aug. 2005 - May 2008
Graduate Student Advisory Board, University of Nebraska-Lincoln, Lincoln, NE.

COMMUNITY
SERVICE

Grader Apr. 2010
Hands on Exposure to Algebraic Topics (HEAT) middle school math competition, University of Louisiana at Lafayette, Lafayette, LA.

Volunteer Coordinator Oct. 2009, Oct. 2010
Allen J. Celestine Foundation Festival of Virtues, Lafayette, LA.

Volunteer Coordinator and Tent Leader Nov. 2008
Woodvale Elementary School Math Symposium, Lafayette, LA.

Member Sep. 2008 - Present
UL Lafayette Black Faculty and Staff Caucus, University of Louisiana at Lafayette, Lafayette, LA.

Grader May 2007
Math in the Middle Alternate Assessment Project, University of Nebraska-Lincoln, Lincoln, NE.

Treasurer Aug. 2006 - May 2008
Black Graduate Student Association, University of Nebraska-Lincoln, Lincoln, NE.

MEDIA COVERAGE

Program/Grant Announcement

ultoday.com September 9, 2011
Web article announcing the Louisiana Noyce grant: "UL Gets NSF Grant for Math Teacher Training".

USA Today September 1, 2011
Newspaper article announcing the Louisiana Noyce grant: "Across the USA: Louisiana".

The Daily Advertiser September 1, 2011
Newspaper article announcing the Louisiana Noyce grant: "Foundation Awards UL Grant to Improve Teacher Preparation".

U.S. Representative Charles Boustany, Jr.'s Website August 31, 2011
Web article announcing the Louisiana Noyce grant: "Boustany Announces National Science Foundation Grant for the University of Louisiana at Lafayette".

La Louisiane Summer 2011
Magazine article announcing the STAGE grant: "NSF Grant Helps Prepare Students for Graduate School".

MTCircular: The Math Teachers' Circle Network Newsletter Summer 2011
Acadiana Math Teachers' Circle Summer Retreat featured in Calendar Events section.

The Vermillion

April 13, 2011

Newspaper article announcing the STAGE grant: “NSF Grant to Help Minorities Survive in Graduate School”.

The Advocate

March 29, 2011

Newspaper article announcing the STAGE grant: “ULL to Mentor Minorities for Graduate Studies”.

U.S. Representative Charles Boustany, Jr.’s Website

February 15, 2011

Web article about STAGE grant: “Boustany Announces National Science Foundation Grant for UL Lafayette”.

Newsletters**MTCircular: The Math Teachers’ Circle Network Newsletter** Autumn 2012

Featured in News announcement entitled “Project Led by Christina Eubanks-Turner of Lafayette, Louisiana, Awarded NSF Grant”.

@louisiana: University of Louisiana at Lafayette enews

June 2012

Grant program featured in the article “Mentors steer students to STEM”.

MTCircular: The Math Teachers’ Circle Network Newsletter Winter 2012

Interviewed for article “Adding It All Up: Tens ideas for funding your circle”.

Math News: A publication of the Department of Mathematics at the University of Nebraska-Lincoln

Winter 2011

Featured in the article “Enhancing Math Education”.

PROFESSIONAL
MEMBERSHIPS &
AFFILIATIONS

American Mathematical Society (AMS)

American Association of University Professors (AAUP)

Association for Women in Mathematics (AWM)

Mathematical Association of America (MAA)

National Association of Mathematics (NAM)