

## Christina Eubanks-Turner

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EDUCATION	<p><b>University of Nebraska-Lincoln</b>          Ph.D., Mathematics, Advisor: Sylvia Wiegand <span style="float: right;">May 2008</span>          M.S., Mathematics <span style="float: right;">August 2004</span></p> <p><b>Xavier University of Louisiana</b>          B.S., Mathematics, <i>cum laude</i> <span style="float: right;">May 2002</span></p>
ACADEMIC EMPLOYMENT	<p><b>Department of Mathematics, Loyola Marymount University, Los Angeles, CA.</b>          Director, Secondary Teacher Preparation Program in Mathematics Aug. 2015-present          Assistant Professor of Mathematics <span style="float: right;">Aug. 2013 - present</span></p> <p><b>Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA.</b>          Assistant Professor of Mathematics <span style="float: right;">Aug. 2008 - May 2013</span></p>
TEACHING EXPERIENCE	<p><b>Loyola Marymount University</b>  <i>Instructor</i> <span style="float: right;">Aug. 2013 - present</span>          MATH 106: Math for Elementary Teachers I (Fall 2013)          MATH 107: Math for Elementary Teachers II (Spring 2014)          MATH 112: Mathematical Analysis for Business II (Fall 2014, Spring 2015)          MATH 331: Elements of Group Theory (Spring 2015)          MATH 548: Methods of Proofs for Teachers (Summer 2015)          MATH 102/103: Quantitative Skills for the Modern World (Summer 2015)          MATH 122: Calculus for the Life Sciences I (Fall 2015)          MATH 248: Introduction to Methods of Proof (Fall 2015)</p> <p><b>University of Louisiana at Lafayette</b>  <i>Instructor</i> <span style="float: right;">Aug. 2008 - May 2013</span>          Intro to Coding Theory, summer course          Graph Polynomials, independent study course          Intro to Graph Theory, independent study 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; independent study          Modern Algebra II, graduate credit course          Number Theory, graduate credit course          Number Theory for Middle School Teachers, graduate course          Algebra and Functions for Middle School Teachers, graduate course</p> <p><b>Louisiana State University</b>  <i>Instructor, Louisiana Math and Science Teacher Institute</i> <span style="float: right;">Jun. 2010 - Jul. 2010</span>          Pre-Thesis Seminar          Leadership Seminar (Guest Lecturer)</p>

**University of Nebraska-Lincoln**

*Instructor* Aug. 2002 - Aug. 2008  
 Functions of Algebra and Geometry for High School Teachers  
 Intermediate Algebra  
 College Algebra  
 Mathematics Matters (course for pre-service elementary teachers)

*Teaching Fellow, Project Fulcrum* Aug. 2004 - May 2005  
 Middle school math and science curriculum development and implementation

*Recitation Instructor* Jul. 2002 - Aug. 2007  
 Abstract Algebra  
 Calculus I  
 Calculus II

ADVISING AND  
MENTORING**Loyola Marymount University**

Carlos Cruz, Sarah Yoseph, McNair Scholar, Aug. 2015-present  
 Jack Polerecky, Noyce Internship, Jun. 2015-present  
 Jonathan Isozaki, Kyle Casto, SURP, May 2015-present  
 Alyssa Tomlinson, RAINS Research Assistant, Jan. 2014-present  
 Claire Summers, RAINS Research Assistant, Sep. 2013-Jan. 2014  
 First To Go Mentor Sep. 2014-present

**University of Louisiana at Lafayette**

L. Bruno, P. Robin, R. Wilburn, T. Thomas, undergraduate research assistant, Jun. 2013-Aug 2013  
 E. Reynoso, B. Thibodeaux, A. Urquiza, A. Wheatley, D. Young, undergraduate research assistant, Jun. 2012-Aug 2012  
 I. Fene, M. Gonzalez, J. Johnson, M. Lennon, K. Pr'Out, undergraduate research assistant, Jun. 2011-Aug 2011  
 Matthew Lennon, graduate research assistant, Summer 2011, 2012, 2013  
 Louis Stokes Louisiana Alliance for Minority Participation Oct. 2009-May 2013

## PUBLICATIONS

- 10 **C. Eubanks-Turner**, P. Beaulieu, N. Pal, A. Vatsala, *Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Groups in Mathematical Sciences Pilot Project: The Benefits and Challenges of Mentoring* (accepted, PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies).
- 9 B. Baker Swart, K. Beck, S. Crook, **C. Eubanks-Turner**, H. Grundman, M. Mei, L. Zack, *Augmented Generalized Happy Functions* (accepted, Rocky Mountain Journal of Mathematics, arxiv.org/abs/1410.0297).
- 8 A. Kreide, **C. Eubanks-Turner**, A. Tomlinson, *Preservice teachers' development of questioning skills through Common Core aligned exemplar videotaped math lessons, Proceedings of the Hawaii University International Conferences*, (2015), 13 pages <http://www.huichawaii.org/steam2015p.html>
- 7 **C. Eubanks-Turner**, M. Lennon, E. Reynoso, B. Thibodeaux, A. Urquiza, A. Wheatley, D. Young, *Using the Division Algorithm to Decode Reed-Solomon Codes, Journal of Shanghai Normal University (Natural Sciences)* (2015), 44:3, 262-269.<sup>1</sup>

<sup>1</sup>Work originating from an undergraduate research project.

- 6 **C. Eubanks-Turner**, N. Hajj, *Mardi Gras Math, Mathematics Teaching in the Middle School* (2015), 20:8, 492-498.
- 5 **C. Eubanks-Turner**, A. Li, *Graphical Properties of the Bipartite Graph of  $\text{Spec}(\mathbb{Z}[x]) \setminus \{0\}$* , *Journal of Algebra Combinatorics, Discrete Structures and Applications* (2015), 2:1, 65-73.
- 4 E. Celikbas, **C. Eubanks-Turner**, S. Wiegand, Prime Ideals in Power Series Rings and Polynomial Rings over Noetherian Domains, *Recent Advances in Commutative Rings, Integer-Valued Polynomials, and Polynomial Functions*, Springer (2014), 55-82.
- 3 **C. Eubanks-Turner**, The W.I.P.E. Rubric: Assessing Student Presentations of Mathematical Proofs, *Proceedings of the Lilly Conference on College and University Teaching and Learning*, (2014), 10-14.
- 2 **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.
- 1 E. Celikbas, **C. Eubanks-Turner**, The Projective Line Over the Integers, *Progress in Commutative Algebra 2*, De Gruyter (2012), 221-240.

GRANTS  
AWARDED

<b>Seaver College Graduate Assistantship Grant</b> Loyola Marymount University	Jun. 2015- Jun. 2016 \$12,337
<b>Academic Technology Summer Grant</b> Loyola Marymount University	May 2015 \$1,000
<b>New Faculty Grant</b> Loyola Marymount University	Dec. 2013 \$6,000
<b>RAINS Research Assistantship</b> Loyola Marymount University	2013, 2014, 2015 \$3,200
<b>Louisiana Mathematics Masters in the Middle (LaM<sup>3</sup>) (Co-PI)</b> National Science Foundation, DUE-1240054	Jul. 2012 \$1,868,895
<b>Supervised Undergraduate Research Experiences</b> Louisiana Board of Regents (support for two undergraduate researchers)	May 2012 \$8,000
<b>MSRI Math Circles Seed Grant</b> Mathematical Sciences Research Institute	Oct. 2011 \$2,000
<b>The Louisiana Noyce Teaching Fellows/Master Teaching Fellows Planning Project</b> National Science Foundation, DUE-1136417	Aug. 2011 \$127,449
<b>AWM Mentoring Travel Grant</b> Association for Women in Mathematics	Aug. 2011 \$3,300
<b>A TEAM (Tactile Experiences with Algebraic Models) Approach to Proficiency in the Middle Grades) (Co-PI)</b> Louisiana Board of Regents	April 2011 \$259,629
<b>Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Minorities in Mathematical Sciences: A Pilot Project (Co-PI)</b> National Science Foundation, DMS-1043223	Feb. 2011 \$548,880

<b>Acadiana Math Teachers' Circle 2011 Summer Retreat</b> Community Foundation of Acadiana - Pugh Family Fund	Jan. 2011 \$12,000
<b>Electronic Course Design Grant</b> University of Louisiana at Lafayette	Oct. 2010 \$2,500
<b>Travel Grant for Emerging Faculty</b> Louisiana Board of Regents	Apr. 2010 \$1,200
<b>Travel Grant for Emerging Faculty</b> Louisiana Board of Regents	Jan. 2009 \$1,200
<b>Summer Research Grant</b> University of Louisiana at Lafayette	Jun. 2009 \$4,800

PEER-  
REVIEWED OR  
INVITED  
PRESENTATIONS

**Attending to Precision in Statistics** Apr. 2016  
2016 National Council of Teachers of Mathematics (NCTM) Research Conference, San Francisco, CA .

**Using Video to Prepare Preservice Teachers to Pose Purposeful Questions**  
Apr. 2016  
2016 National Council of Teachers of Mathematics (NCTM) Research Conference, San Francisco, CA .

**Engaging Teachers in Math Practices in a Statistics Professional Development** Apr. 2016  
48th National Council of Supervisors of Mathematics (NCSM) Annual Conference, San Francisco, CA (60-minute presentation).

**Loyola Marymount University's Masters of Arts in Teaching Mathematics Program** Jan. 2016  
AMS Special Session on Graduate Mathematics Courses and Programs for Secondary Mathematics Teachers, Joint Mathematics Meetings, Seattle, WA.

**Interlace Polynomials of the Friendship Graph and other Triangular Graphs**  
Nov. 2015  
9th Annual Symposium for Women in Mathematics in Southern California, Pomona, CA.

**Pre-Service Teachers' Development of Questioning Skills through Common Core Aligned Videotaped Math Lessons** June 2015  
Hawaii University International S.T.E.A.M. Education Conference, Honolulu, HI.

**Using Webb's Depth of Knowledge to Reach 21st Century Skills Seen in the Common Core Mathematical Practices and Science and Engineering Practices in the Next Generation Science Standards** June 2015  
Hawaii University International S.T.E.A.M. Education Conference, Honolulu, HI (50-minute workshop presentation).

**Setting the STAGE (Smooth Transition for Advancement to Graduate Education) for Underrepresented Students in Mathematical Sciences: Broadening Participation through Mentoring** May 2015  
Understanding Interventions that Broaden Participation in STEM Careers, San Diego, CA (poster presentation).

**Lessons Learned from the Pilot Project ‘Smooth Transition for Advancement to Graduate Education (STAGE) for Underrepresented Students in Mathematical Sciences’** Jan. 2015

MAA Session on Perspectives and Experiences on Mentoring Undergraduate Students in Research, Joint Mathematics Meetings, San Antonio, TX.

**Prospective teachers’ development of questioning skills inspired by authentic mathematical classroom dialogue from videotaped lessons** Oct. 2014

Scientific Symposium on Current Research Trends in Mathematics Education: Issues That Matter, SACNAS, Los Angeles, CA.

**Coloring Outside the Lines: The colorful impact of math on the world** Apr. 2014

Preparing Undergraduates through Mentoring towards PhDs (PUMP) Research Symposium, California State Polytechnic University, Pomona, Pomona, CA.

**The W.I.P.E. Rubric: Assessing Student Presentations of Mathematical Proofs** Feb. 2014

Lilly Conference on College and University Teaching and Learning, Hyatt Regency Newport Beach, Newport Beach, CA.

**Taking the STAGE: Preparing for Graduate School or STEM Careers** Jun. 2013

University of Louisiana at Lafayette, Lafayette, LA.

**Commutative Algebra and the Algebraic Reasoning of Teachers** Feb. 2013

University of Texas at Dallas, Dallas, TX.

**The Mathematical Practices of the Mad Veterinarian** Feb. 2013

Loyola Marymount University, Los Angeles, CA.

**Efforts to Improve the Algebraic Content Knowledge of Middle Grade Teachers** Jan. 2013

Mathematics Seminar, Kennesaw State University, Kennesaw, GA.

**STAGE: A Pilot Project in Mentoring Underrepresented Undergraduate Students** Jan. 2013

MAA Session on Effective Strategies and Programs for Mentoring Women and Minorities in Mathematics, Joint Mathematics Meetings, San Diego, CA.

**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.

**Prime Spectra of Birational Extension Rings** Jan. 2011

Association for Women in Mathematics Workshop, Joint Mathematics Meetings, New Orleans, LA.

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

MANUSCRIPTS  
UNDER REVIEW  
& IN PROGRESS

- A. Bargagliotti, **C. Eubanks-Turner**, *Attending to Precision in Statistics* (submitted).
- C. Eubanks-Turner**, A. Kreide, *Preparing Preservice Teachers to Pose Purposeful Questions Through Common Core Aligned Videotaped Math Lessons* (submitted).
- B. Baker Swart, K. Beck, S. Crook, **C. Eubanks-Turner**, H. Grundman, M. Mei, L. Zack, *Fixed Points of Augmented Generalized Happy Numbers* (in preparation).
- C. Eubanks-Turner**, I. Fene, A. Li, B. Thibodeaux, *Interlace Polynomials of the Friendship Graph and other triangulated graphs* (in preparation).<sup>2</sup>
- E. Celikbas, **C. Eubanks-Turner**, S. Wiegand, *Prime Ideals of Two-Dimensional Quotients of Mixed Power Series/Polynomial Rings* (in preparation).

OTHER  
PRESENTATIONS

- Coloring Outside the Lines** Apr. 2014  
Junior Faculty Seminar, Loyola Marymount University, Los Angeles, CA.
- Forming a Math Circle** May 2011  
Enhancing Content for Comprehension in Undergraduate Mathematics Workshop, University of Louisiana at Lafayette, Lafayette, LA.
- Prime Ideals in Extensions of Power Series Rings** Oct. 2010  
Southern Regional Algebra Conference, University of Louisiana at Lafayette, Lafayette, LA.
- 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.

<sup>2</sup>Work originating from an undergraduate research project.

UNIVERSITY &  
DEPARTMENTAL  
SERVICE**Loyola Marymount University**

*Member*, LMU Multiethnic Taskforce, Jan. 2015 - Present  
*Member*, Mathematics Department Seminar Committee, Aug. 2014 - Aug. 2015  
*Summer Faculty Associate*, McNair Scholars Program, Jun. 2014  
*Member*, Math & Science Teacher Education Preparation Committee, Feb. 2014 - Present  
*Invited Speaker*, McNair Program, Dec. 2013  
*Member*, CREATE-STEM Education Group, Aug. 2013 - Present  
*Member*, Mathematics Department Education Committee, Aug. 2013 - Present  
*Member*, Mathematics Department Sophomore Scholarship Committee, Aug. 2013 - Aug. 2014  
*Invited Speaker*, LMU ACCESS Program, Aug. 2013

**University of Louisiana at Lafayette**

*Organizer*, Algebra Seminar, Aug. 2011 - Dec. 2011  
*Member*, Math Department Online Courses Committee, Aug. 2010 - May 2013  
*Member*, Community Service Committee, Aug. 2010 - May 2013  
*Member*, Graduate Faculty, Sep. 2008 - May 2013  
*Member*, Math Department Graduate Recruitment Committee, Sep. 2008 - May 2013  
*Member*, Mathematics Education Committee, Sep. 2008 - May 2013

**University of Nebraska-Lincoln**

*Facilitator*, Math 804T, 807T Orientation Workshop, Sep. 2011, Jan. 2008  
*Member*, Hiring Committee, Oct. 2007 - Jan. 2008  
*Board Member*, Graduate Student Advisory Board, Aug. 2005 - May 2008

PROFESSIONAL  
SERVICE**Committees and Boards**

*Associate Editor*, MAA Classroom Resource Materials Editorial Board  
*Program Coordinator*, MAA SIGMAA on Undergraduate Research  
*Organizing Member*, Association for Women in Mathematics Teacher Partnership Program  
*Member*, Pacific Math Alliance, Pacific Region  
*Member*, Gulf States Math Alliance Advisory Board, Gulf States Region

**Referee**

Journal of Algebra and its Applications  
 PRIMUS  
 SIGMAA on RUME Conference Proceeding  
 AMS Mathematical Reviews

**Founder and Organizer**

Acadiana Math Teachers' Circle, Sep. 2009 - May 2013

**Organizer**

AMS Special Session on Outreach for Mathematically Talented Youth, (Chair) Jan. 2014  
 Louisiana Noyce Capacity Building Summit, Jan. 2012  
 AMS Special Session on Commutative Algebra, (Chair) Oct. 2011  
 Southern Regional Algebra Conference, Oct. 2010  
 Nebraska Black Leadership Symposium Special Session on Leadership, Jan. 2006

**Panelist**

Impressing the Tenure-Track Faculty Search Committee, Nov. 2014  
 Alliance Ph.D.'s Tell Their Stories, Field of Dreams Conference, Nov. 2012  
 Center for Undergraduate Research in Mathematics Spring Research Conference, Mar. 2011  
 The Gallup Leadership Summer Institute, May 2007  
 30th Annual Big XII Conference on Black Student Government, Feb. 2007

**Mentor**

LMU McNair Scholars, Aug. 2015-present  
 LMU Noyce Internship, Jun. 2015-present  
 LMU SURP, May 2015-present  
 National Alliance for Doctoral Studies in Mathematics, Oct. 2009 - Present

**Poster Judge**

The MAA 11th Annual Garden State Undergraduate Mathematics Conference, Apr. 2014

**Facilitator**

Xavier University Math Science Institute, Jul. 2008

COMMUNITY  
SERVICE**Grader**

Hands on Exposure to Algebraic Topics (HEAT) middle school math competition, Apr. 2010  
 Math in the Middle Alternate Assessment Project, May 2007

**Volunteer Coordinator**

Allen J. Celestine Foundation Festival of Virtues, Oct. 2009, Oct. 2010  
 Woodvale Elementary School Math Symposium, Nov. 2008

**Treasurer**

Black Graduate Student Association, Aug. 2006 - May 2008

HONORS,  
FELLOWSHIPS  
AND AWARDS**Understanding Interventions Travel Award**

Understanding Interventions that Broaden Participation in STEM Careers May 2015

**LMU President's Institute**

Loyola Marymount University May 2014

**LA/MS Section NExT Fellow**

Mathematical Association of America Mar. 2009 - Mar. 2010

**Project NExT Fellow**

Mathematical Association of America Jun. 2008 - Jun. 2010

**Certificate of Recognition for Contributions to Students**

University of Nebraska-Lincoln Feb. 2007

**Mentoring Through Critical Transition Points Fellowship**

University of Nebraska-Lincoln Jan. 2006 - Aug. 2006

**Graduate Assistance in Areas of National Need Fellowship**

University of Nebraska-Lincoln Aug. 2005 - Aug. 2006



**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

PROFESSIONAL  
DEVELOPMENT

**Loyola Marymount University**  
6th Annual Writing Retreat, Association of Black Women in Higher Education Feb.  
2015

Unleashing the Power of Rubrics, CTE Nov. 2014

Intercultural Pedagogy Workshops, Fall 2014-Spring 2015

Writing Meaningful Learning Outcomes, CTE Feb. 2014

Asking the Right Questions: Best Practices for Designing Exams, CTE Sep. 2013

**Workshop/Conference (Sponsored Participant)**

2015 Western Conversations, University Council for Jesuit Mission, University of San  
Francisco, Oct. 2015

Research Experiences for Undergraduate Faculty, AIM/ICERM, Jul. 2015

Partnerships: A Workshop on Collaborations between the NSF and private founda-  
tions, NSF, Mar. 2015

Research Experiences for Undergraduate Faculty, AIM Jul. 2014

CIME 2014: The Role of the Mathematics Department in the Mathematical Prepara-  
tion of Teachers, MSRI, Mar.  
2014

CIME 2013: Assessment of Mathematical Proficiencies in the Age of the Common  
Core,  
MSRI, Apr. 2013

How to start a Math Camp, AIM, Mar. 2013

Combinatorial Commutative Algebra and Applications, MSRI, Dec. 2012

Common Core State Standards Math Training for University Faculty, Lafayette, LA,  
Nov. 2012

IAS/PCMI Workshop for Mentors of Undergraduate Mathematics Research by Minor-  
ity Students, Park City Math Institute, Jul.  
2012

Enacting Standards for Mathematical Practices Conference, University of Nebraska-  
Lincoln,  
Oct. 2011

Mathematical Field of Dreams Conference, University of Iowa, Oct. 2010

PREP Workshop on Inquiry Based Learning, MAA, May 2010

How to run a Math Teachers' Circle Workshop hosted by AIM, MAA, Jul. 2009

Promoting Diversity at the Graduate Level in Mathematics: a National Forum, MSRI,  
Oct. 2008

Visiting Scholar, Educational Testing Services Jun. 2008

Negotiating an Ideal Faculty Position Workshop, Rice University, Oct. 2007

Summer School in Commutative Algebra, MSRI Jun. 2005

PROFESSIONAL  
MEMBERSHIPS &  
AFFILIATIONS

American Association of University Professors (AAUP)  
American Mathematical Society (AMS)  
Association of Mathematics Teacher Educators (AMTE)  
Association for Women in Mathematics (AWM)  
Mathematical Association of America (MAA)  
National Association of Mathematics (NAM)

CERTIFICATIONS

NIH Protecting Human Research Participants, No: 1498133  
Mathematical Quality of Instruction Instrument, No: 11234