

# CURRICULUM VITAE OF AARON LAUVE

---

**Postal Address:**

Department of Mathematics & Statistics  
Loyola University Chicago  
1032 W. Sheridan Road  
Chicago, IL 60660

**Office:** BVM Hall, Room 507**Tel:** +1 (773) 508-3727**Fax:** +1 (773) 508-2123

lauve@math.luc.edu

<http://www.math.luc.edu/~lauve>

---

## PROFESSIONAL EMPLOYMENT

2010–present *Assistant Professor*, Loyola University Chicago (LUC)

2007–2010 *Visiting Assistant Professor*, Texas A & M University (TAMU)

2005–2007 *Postdoctoral Fellow*, Université du Québec à Montréal (UQÀM)

## EDUCATION

**Rutgers, The State University of New Jersey** *New Brunswick, NJ*

Ph.D. *A quasideterminantal approach to quantized flag varieties*, May 2005

Directed by Vladimir Retakh and Robert L. Wilson

**The University of Oklahoma** *Norman, OK*

B.S. Mathematics, summa cum laude, May 1999

B.S. Physics, with distinction, May 1999

## RESEARCH INTERESTS

Exploiting combinatorial structures in algebra. Specific interests in this direction include: quasideterminants, Hopf algebras (of quantum, pointed, and combinatorial varieties), word combinatorics, noncommutative ring theory, and representation theory.

## GRANTS, HONORS & AWARDS

### Research

LUC – Research Stipend, Summers 2013 & 2014

LUC – CAS Special Project: *Sage Days 65 Workshop*, Summer 2015

National Security Agency (NSA) – **Principal Investigator**, Young Investigators Grant: *Word combinatorics and combinatorial Hopf algebras*, @TAMU: 2009–2010, @LUC: 2011–2013

BIRS – Collaborator (in group of six), Focused Research Group: *Supercharacters & Hopf Monoids in Species*, awarded a week at Banff, Alberta, Fall 2012

AIM – Participant, Workshop: *Supercharacters & Combin. Hopf Algebras*, Palo Alto, Summer 2010

Rutgers University – Louis Bevier Dissertation Fellowship, 2004–2005

DIMACS – Graduate Student Award, Summers 2003 & 2004

NSF – VIGRE Graduate Student Fellow, 1999–2001

### Teaching / Service

LUC – (**nominee**) St. Ignatius of Loyola Award, Spring 2015

LUC – CAS Special Project: *Undergraduate Math. Colloquium*, Academic Years 11/12 – 14/15

MAA – Project NExT Fellow, 2007–2008

## PUBLICATIONS

## Refereed Journal Articles

- [1] (w/ M. Aguiar) *The characteristic polynomial of the Adams operators on graded connected Hopf algebras*. Alg. Number Theory, 9 (2015), no. 3, 547–583.
- [2] (w/ T. Hangelbroek) *The polyharmonic Dirichlet problem and path counting*. J. Math. Pures Appl. (9), 102 (2014), no. 3, 449–481.
- [3] (w/ M. Konvalinka) *Skew Pieri rules for Hall–Littlewood functions*. Alg. Comb., 17 (2013), no. 3, 499–518.
- [4] (w/ S. Forcey, F. Sottile) *Cofree compositions of coalgebras*, Ann. Comb., Special Issue: 10 years of BAD Math, 17 (2013), no. 1, 105–130.
- [5] (w/ M. Aguiar) *Lagrange’s theorem for Hopf monoids in species*, Canad. J. Math., 65 (2013), no. 2, 241–265.
- [6] (w/ 27 coauthors<sup>1</sup>) *Supercharacters, symmetric functions in noncommuting variables, and related Hopf algebra*, Adv. Math., 229 (2012), no. 4, 2310–2337.
- [7] (w/ S. Mason)  *$QSym_n$  over  $Sym_n$  has an  $n$ -stable basis*, J. Combin. Theory Ser. A, 118 (2011), 1661–1673.
- [8] (w/ M. Mastnak) *The primitives and antipode in the Hopf algebra of symmetric functions in noncommuting variables*, Adv. Appl. Math., 47 (2011), no. 3, 536–544.
- [9] (w/ T. Lam, F. Sottile) *Skew Littlewood–Richardson rules from Hopf algebras*, Int. Math. Res. Not. 2011, no. 6, 1205–1219.
- [10] (w/ S. Forcey, F. Sottile) *Hopf structures on the multiplihedra*, SIAM J. Discrete Math., 24 (2010), no. 4, 1250–1271.
- [11] (w/ F. Bergeron) *Invariant and coinvariant spaces for the algebra of symmetric polynomials in noncommuting variables*, Electron. J. Combin., 17 (2010), no. 1, article R166.
- [12] *Quasideterminants and  $q$ -commuting minors*, Glasg. Math. J. 52 (2010), no. 3, 663–675.
- [13] (w/ C. Cibils, S. Witherspoon) *Hopf quivers and Nichols algebras in positive characteristic*, Proc. Amer. Math. Soc. 137 (2009), no. 12, 4029–4041.
- [14] (w/ A. Glen, F. V. Saliola) *A note on the Markoff condition and central words*, Inform. Proc. Letters, 105 (2008), no. 6, 241–244.
- [15] (w/ E. J. Taft) *A class of left quantum groups modeled after  $SL_q(n)$* , J. Pure and Appl. Algebra, 208 (2007), no. 3, 797–803.
- [16] *Quantum- and quasi-Plücker coordinates*, J. Algebra, 296 (2006), no. 2, 440–461.

## Books

- [14] (w/ J. Berstel, C. Reutenauer, F. V. Saliola) *Combinatorics on Words: Christoffel Words and Repetitions in Words*. CRM Monograph Series, 27. American Mathematical Society, Providence, RI, 2009. xii+147 pp. ISBN: 978-0-8218-4480-9

---

<sup>1</sup> A paper resulting from a successful 2010 AIM Workshop with roughly the same name. **Attendees/Coauthors:** M. Aguiar, C. Andr, C. Benedetti, N. Bergeron, Z. Chen, P. Diaconis, A. Hendrickson, S. Hsiao, I. M. Isaacs, A. Jedwab, K. Johnson, G. Karaali, A. Lauve, T. Le, S. Lewis, H. Li, K. Magaard, E. Marberg, J.-C. Novelli, A. Pang, F. Saliola, L. Tevlin, J.-Y. Thibon, N. Thieme, V. Venkateswaran, C. R. Vinroot, N. Yan, M. Zabrocki.

**Refereed Collections & Proceedings**

- [15] (w/ C. Reutenauer) *Rational series in the free group and the Connes operator*. In: Noncommutative Birational Geometry, Representations and Combinatorics. Edited by Arkady Berenstein and Vladimir Retakh. Contemporary Mathematics, 592. American Mathematical Society, Providence, RI, 2013 (pp. 177–197).
- [16] (w/ M. Aguiar) *Antipode and convolution powers of the identity in graded connected Hopf algebras*. 25<sup>th</sup> International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC), Paris, France, 2013, DMTCS Proceedings.
- [17] (w/ M. Konvalinka) *Skew Pieri rules for Hall–Littlewood functions*. 24<sup>th</sup> International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC), Nagoya, Japan, 2012, DMTCS Proceedings.
- [18] (w/ M. Aguiar) *Lagrange’s theorem for Hopf monoids in species*. 23<sup>rd</sup> FPSAC Conference (Reykjavik, Iceland, 2011), DMTCS Proceedings.
- [19] (w/ S. Forcey, F. Sottile) *Cofree compositions of coalgebras*. 23<sup>rd</sup> FPSAC Conference (Reykjavik, Iceland, 2011), DMTCS Proceedings.
- [20] (w/ S. Mason)  *$QSym_n$  over  $Sym_n$  has a stable basis*. 22<sup>nd</sup> FPSAC Conference (San Francisco, 2010), DMTCS Proceedings.
- [21] (w/ T. Lam, F. Sottile) *Skew Littlewood–Richardson rules from Hopf algebras*. 22<sup>nd</sup> FPSAC Conference (San Francisco, 2010), DMTCS Proceedings.
- [22] (w/ S. Forcey, F. Sottile) *New Hopf structures on binary trees*. 21<sup>st</sup> FPSAC Conference (Hagenberg, Austria, 2009), DMTCS Proceedings.
- [23] (w/ F. Bergeron) *Invariant and coinvariant spaces for the algebra of symmetric polynomials in non-commuting variables*. 20<sup>th</sup> FPSAC Conference (Valparaiso, Chile, 2008), DMTCS Proceedings.
- [24] (w/ D. F. Anderson, A. Frazier, P. Livingston) *The zero-divisor graph of a commutative ring II*. Ideal theoretic methods in commutative algebra (Columbia, MO, 1999), 61–72, Lecture Notes in Pure and Appl. Math., 220, Dekker, New York, 2001.

**Manuscripts***In Preparation*

- (w/ Z. Daugherty) *The Hopf algebra of trapezoidal partition diagrams*.
- (w/ M. Mastnak) *Classifying combinatorial Hopf algebras up to equivalence*.
- (w/ S. Doty, G.H. Seelinger) *Young and permutation modules for the Brauer algebra*.
- (w/ F. Saliola) *Self-duality of the Hopf algebra of  $k$ -Schur functions*.
- *Flag varieties for the Yangian  $Y(\mathfrak{gl}_n)$* .

**SELECTED PRESENTATIONS****Conferences & Workshops**

*Convolution powers of the identity in combinatorial Hopf algebras.*

**(fully funded)**, Midwest Combinatorics Conference, Minnesota, 05/15;

AMS Sectional Meeting, 03/15;

(poster), 25<sup>th</sup> FPSAC Conference, Paris, 06/13;

CMS Summer Meeting, Halifax, 06/13

*Hopf algebra structure of the ring of  $k$ -Schur functions.*

(partially funded), XX Coloquio Latinoamericano de Álgebra, Lima, Peru, 12/14;  
AMS Sectional Meeting, 09/14

*Permutation modules for Brauer algebras.* AMS Sectional Meeting, 04/13

*Spectra of principal elements in Frobenius seaweed Lie algebras.* AMS Sectional Meeting, 03/12

*Lagrange's theorem for Hopf monoids in species.* AMS Sectional Meeting, 09/11;

(poster) 23<sup>rd</sup> FPSAC Conference, Reykjavik, Iceland, 06/11;  
SIAM Conference on Discrete Mathematics, Austin, 06/10

*QSym over Sym has a stable basis.* LaCIM 2010: celebrating LaCIM's 10<sup>th</sup> anniversary (Graciously delivered by Christophe Reutenauer in my absence), Montreal, 08/10;

AMS Sectional Meeting, 03/10

*Skew Littlewood–Richardson rules from Hopf algebras.* 22<sup>nd</sup> FPSAC Conference, San Francisco, 08/10

*New Hopf structures on binary trees.* (poster), Joint Meetings, 01/10;

21<sup>st</sup> FPSAC Conference, Hagenberg, Austria, 07/09;  
AMS Sectional Meeting, 04/09;  
CMS Winter Meeting, Ottawa, 12/08

*Nichols algebras in positive characteristic.* Groups and Hopf Algebras Workshop, St. John's, Newfoundland, 06/09

*Rational and irrational series over the free group.* Joint Meetings, 01/09

*The Markoff condition and central words.* (poster), Joint Meetings, 01/09

*Commutative and noncommutative invariants of the symmetric group.*

20<sup>th</sup> FPSAC Conference, Valparaiso, Chile, 09/07;  
CMS Winter Meeting, Toronto, 12/06;  
AMS Sectional Meeting, 11/06

*Noncommutative flag varieties and Yangians.*

(partially funded) Advanced Course on Quasideterminants, CRM, Barcelona, 02/07;  
AMS Sectional Meeting, 11/05

*On novel ways to invert a matrix.* Joint Meetings, 01/07;

XVIII<sup>th</sup> Meeting on Representation Theory of Algebras, Sherbrooke, Quebec, 09/06

*Generalized Grassmannians constructed via quasideterminants.* Joint Meetings, 01/05

*Quantum and quasi-Plücker coordinates.* AMS Sectional Meeting, 10/04

### Research Seminars

*Convolution powers of the identity in combinatorial Hopf algebras.*

Algebra & Combinatorics Seminar, Cornell University, 02/14;  
Algebra Seminar, DePaul University, 03/13;  
Algebra and Representation Theory Seminar, Oklahoma University, 02/13

*Introduction to supercharacter theory.* Algebra Seminar, DePaul University, 05/11

*Primitive and antipode formulas in the Hopf algebra of symmetric functions in noncommuting variables.*

Algebra and Combinatorics Seminar (ACS), TAMU, 01/11;  
Algebra Seminar, DePaul University, 09/10;  
Algebra Seminar, LUC, 08/10

*Skew Littlewood–Richardson rules from Hopf algebras.* Discr. Geom. & Comb. Seminar, Cornell, 10/09;  
Combinatorics Seminar, MIT, 10/09;  
Algebra, Geometry & Combinatorics Seminar, UI–Urbana-Champaign, 10/09;  
ACS, TAMU, 10/09

*Another look at Markoff’s work on quadratic forms.* AGANT Seminar, UT-Arlington, 09/09;  
Number Theory Seminar, University of Texas, 10/08;  
Discrete Math Seminar, Texas State University, 10/08;

*Nichols algebras in positive characteristic.* Joint Algebra Seminar, University of Ottawa, 12/08

*Rational and irrational series over the free group.* Groups and Dynamics Seminar, TAMU, 11/08;  
Postdoc Lunch Series, TAMU, 10/08

*The MacMahon Master Theorem and its modern extensions: expository talk on Konvalinka–Pak (2007).*  
Séminaire du LaCIM, UQÀM, 11/06

*Poset paths and  $q$ -commuting minors.* Séminaire du LaCIM, UQÀM, 04/06

*Capture the flag: the quantum flag of Taft & Towber revisited.* Algebra Seminar, Rutgers, 04/04

### Colloquia & Broader Audiences

*The Markoff condition and central words.* Applied Mathematics Colloquium, IIT 10/14;  
(poster) Young Mathematicians Network Poster Session, Joint Meetings, 01/08

*Spectra of Principal Elements in Frobenius Seaweed Lie Algebras.* Mathematics Colloquium, Wake Forest University 09/12;  
Math. & Computer Science Colloquium, St. Mary’s University (Halifax) 06/12

*A menagerie of “coinvariant” spaces (modern takes on Chevalley–Shephard–Todd).* Mathematics Colloquium,  
Northern Illinois University, 12/11;  
Topology Seminar, University of Chicago, 11/11

*Pointed Hopf algebras.* Kempner Colloquium Series, University of Colorado, 11/09

*Middle binomial matrices and Chebyshev polynomials.* Postdoc Lunch Series, TAMU, 10/09

*Up with quasideterminants! (w/ apologies to S. Axler)* Postdoc Lunch Series, TAMU, 10/07

*Questions concerning sums and products of matrices (w/ answers!)* Mathematics Colloquium, Dalhousie University, Halifax, 04/07

*Graduate Student “Pizza” Seminar, Rutgers University.* Introduction to Schur polynomials, 09/04;  
Horned Hermitian Honeybees and their Quasi-Friends, 10/03; Down with Determinants?, 11/02;  
And at the root of it all . . . finite reflection groups, 09/01;  $\Gamma(R)$ : graph theory meets ring theory, 10/00; Who was Tableaux, and how young was he?, 10/99

### Outreach

*Arithmetic with fractional bases.* Brazos Valley Math Teachers’ Circle, 10/09

*Fun with Polynomials,* Rutgers Undergraduate Seminar, 04/02

*Zero-divisor graphs,* Math Club Student Lecture Series, University of Oklahoma, 10/98

*Tangling with topology,* Mu Alpha Theta National Convention, 08/96

(MA $\Theta$  is a high school mathematics honor society holding state and national competitions.)

**TEACHING****University Courses***Instructor at Loyola University Chicago*

MATH 108 – <i>Real-World Modeling</i> . Sp. '13	MATH 162 – <i>Calc., II</i> . Sp. '11, Sp. '15
MATH 118 – <i>Precalc., II</i> . Fa. '10, Fa. '15	MATH 313 – <i>Abstract Alg., I</i> . Fa. '11, Fa. '15
MATH 131 – <i>Applied Calc., I</i> . Fa. '12, Fa. '13	MATH 314 – <i>Abstract Alg., II</i> . Sp. '12
MATH 132 – <i>Applied Calc., II</i> . Sp. '11, Fa. '11	MATH 315/488 – <i>Adv. Linear Alg.</i> . Fa. '12
MATH 161 – <i>Calc., I</i> . Fa. '10, Sp. '12, Fa. '14	MATH 318/418 – <i>Combin.</i> . Sp. '13, Sp. '15

*Instructor Elsewhere*

Applied Calculus I, TAMU, Spring 2010

- Differential calculus for business and biology majors.

Mathematics of Contingent Claims, TAMU, Spring 2010

- Gentle, proof-based introduction to options pricing models: Black-Scholes, implied volatility trees, binomial trees and the like. Basic probability and differential equations are prerequisites.

Structure of Mathematics I, TAMU, Fall 2009

- A “content” and “methods” for pre-service elementary and middle school teachers.

Applied Abstract Algebra, TAMU, Spring 2009

- Taken primarily by pre-service high school teachers. Covers group theory and cryptography.

Topics in Applied Math I, TAMU, Spring 2009, Fall 2008, Spring 2008

- An abstract linear algebra course for engineering majors, with applications to ODEs and PDEs.

Topics in Contemporary Math II, TAMU, Spring 2008

- A finite mathematics course for life science majors. Large lecture format.

Introduction to Linear Algebra, TAMU, Fall 2007

- A proof-based first course in linear algebra. For mathematics majors.

Calculus II, for engineering majors, McGill University, Fall 2006

Linear Algebra and its Applications, Rutgers University, Summer 2005

- For engineering graduate students. Matrix factorizations, numerical & iterative methods, etc.

Introduction to Linear Algebra, Rutgers University, Summer 2002

*Co-Instructor*

(w/ F. Bergeron, F. Saliola) Algebra and Combinatorics, UQAM, Fall 2006

- Second year graduate topics course on quasisymmetric and noncommutative symmetric functions.

*Teaching Assistant* (Rutgers University, 2001–2004)

Calculus I, II, &amp; III, for math and physical science majors, 6 semesters

Calculus I, for life science and business majors, 1 semester

**Student Supervision***Supervisor* (LUC)*Multiplicity of the alternating representation among bi-variate Vandermonde determinants*, Summer 2015*Novel ways to invert a square matrix*, Summer 2015

*Billiard words as generalized Christoffel words*, Summer 2015

*When is a matrix invertible?*, **REAP Program** (High School Student), Summer 2014

*Co-Supervisor* (LUC)

(w/ S. Doty) *Specht and permutation modules for Brauer algebras*, **LUROP**, Summer 2012–Spring 2015

(w/ A. Giaquinto) *Spectra of Frobenius maximal parabolics*, **LUROP**, Summer 2013–Spring 2014

(w/ P. Tingley) *Reading seminar on semisimple Lie theory* (5 students), Summer 2013

(w/ A. Giaquinto) *Spectra of Frobenius seaweed Lie algebras*, **LUROP**, Summer 2011–Summer 2012

*Postdoctoral Supervisor* (CRM-ISM Summer Scholarships Program, UQÀM)

(w/ B. Larose) *Schützenberger’s conjectures on Young tableaux evacuation*, Summer 2006

*Graduate Mentor* (REU Program, Rutgers)

(w/ S. Sahi) *Tabulation of spherical functions using a formula of S. Sahi*, Summer 2003

(w/ A. Taylor) *Computing maximal minors of “A-matrices” using graphs*, Summer 2001

(w/ C. Woodward) *Multiplicity-free products and quantum cohomology*, Summer 2000

## PROFESSIONAL DEVELOPMENT

*(Conferences & Workshops attended, sans lecturer/organizer responsibilities)*

### Research

*Combinatorial Representation Theory*, New Directions in Lie Theory, Thematic Semester, CRM, Montreal, April 2014

*Combin. on Words + Combin. Hopf Algebras and Macdonald Polynomials + Combin. Alg. Geometry*, Recent Advances in Combinatorics, Thematic Semester, CRM, Montreal, Spring 2007

*Quasisymmetric Functions*, Banff Workshop, Alberta, November 2010

*Alg. Combin. meets Combin. Inverse Systems*, Mini-Workshop, Fields Institute, Toronto, January 2006

*Words*, 5<sup>th</sup> International Conference on Word Combin., Montreal, Canada, September 2005

*Combinatorial Hopf Algebras*, Banff Workshop, Alberta, September 2004

### Teaching

*(Assorted Breakout Sessions)* Focus on Teaching and Learning, LUC, August 2014

*Flipped Classroom + Active Learn. + Social Justice* MAA MathFest, Portland, August 2014

*Service Learn. + Math. Bio. + Res. Math. Ed.* AMS/MAA Joint Meetings, New Orleans, January 2011

*(Assorted Project NExT Sessions)* AMS/MAA Joint Meetings, Boston, January 2009

*(Assorted Project NExT Sessions)* MAA MathFest, Wisconsin, August 2008

## SERVICE

### Professional

*Co-chair*, MAA Panel, “Innovative Teaching Methods,” MAA Mathfest, August 2008

*Co-chair*, AMS Contributed Papers Session, Joint Meetings, January 2005

*Mentor*, MAA Project NExT Fellows Program, Fall 2014 to present

*Member*, Organizing Committee, AMS Central Section Fall Meeting, LUC, October 2015

*Member*, Dissertation Committee, Doctoral Defense, UQÀM, May 2015

*Member*, Organizing Committee, 26<sup>th</sup> International FPSAC Conference, DePaul, July 2014

*Co-organizer*, Special Sessions in AMS Sectional Meetings

“Hopf algebraic combinatorics,” LUC, October 2015

“Symmetric functions and their generalizations,” Wake Forest, September 2011

*Co-organizer*, Sage Days 65, LUC, June 2015

*Co-organizer*, CRM Mini-workshop, “Alg. Comb. meets Inverse Systems,” January 2007

*Referee*, Journal and Conference Manuscripts (34)

Adv. Math. (1),	Internat. J. Alg. Comput. (1),	J. Pure and Appl. Alg. (2),
Canad. J. Math. (1),	J. Algebra Appl. (1),	Selecta Math. (2),
Comm. Algebra (1),	J. Algebraic Combin. (4),	Sém. Lothar. Combin. (2),
DMTCS, Proc./FPSAC (9),	J. Combin. Theory Ser. A (4),	SIAM J. Discrete Math. (1),
Electron. J. Combin. (1),	J. Discrete Math. (1),	SIGMA (1),
Exp. Math. (1),	J. London Math. Soc. (1),	Trans. Amer. Math. Soc. (1)

*Reviewer*, MathSciNet, Math Reviews (12)

*Reviewer*, Young Investigator Grants Program, NSA, Spring 2015

### **Departmental**

(Loyola University Chicago)

*Admin.*, Math. & Stat. Online Presence: Web, Blogs, & Social Media, Summer 2012 to present

*Head*, Ad Hoc Committee on Assessment of Major Programs (for FCIP), Fall 2015 to present

*Head*, Math Lecturer Hiring Committee, 2014–2015

*Head*, One-Year Lecturer Hiring Committee, Summer 2014

*Head*, Ad Hoc Exploratory Committee: Course Coordination, Spring 2011

*Member*, Committee: Course Coordination, Spring & Fall 2014

*Member*, Committee: Senior Seminar Course Guidelines, Spring 2013

*Member*, Committee: Capstone Course Guidelines, Fall 2012

*Member*, One-Year Lecturer Hiring Committee, Summer 2013

*Member*, Math NTT Hiring Committee, 2012–2013

*Member*, Stat NTT Hiring Committee, 2012–2013

*Member*, Math TT Hiring Committee, 2011–2012 & 2010–2011

*Organizer*, Math/Stat Tea, Fall 2011 to present

*Co-organizer*, Undergraduate Colloquium in the Mathematical Sciences, Fall 2011 to present

*Co-organizer*, Math/Stat Teaching Seminar, Fall 2011 to present

*Co-organizer*, Algebra and Combinatorics Seminar, Fall 2011 to present

*Representative*, CAS Affinity Group Meeting: Strategic Plan on Social Justice, Fall 2014

(Elsewhere)

*Head*, Textbook Search Committee for “Topics in Applied Algebra, I” (TAMU), Spring 2009

*Organizer*, Algebra and Combinatorics Seminar (TAMU), Fall 2008–Spring 2010

*Co-organizer*, Working Algebra Seminar (TAMU), Spring 2009

*Organizer*, Graduate Student Seminar (Rutgers), 2000–2002

*Member*, VIGRE Grant Proposal Committee (Rutgers), Spring 2003

### **University**

*Interviewer*, Ignatian Scholarship Competition, Spring 2015

*Interviewer*, Presidential Achievement Competition, Spring 2013

*Member*, Hiring Committee: CSME Assistant Director for Math Programs, Spring 2015

*Reviewer*, Junior Science and Humanities Symposium, Loyola, Spring 2015



**Other**

*Judge*, Poster Session, Chicago Area Undergraduate Research Symposium, 2014

*Judge*, MAA "Undergraduate Poster Session," Joint Meetings, January 2009 & January 2008

*Letter writer*, undergrad. nomination for scholarships, research programs, grad. schools (24)

*Letter writer*, for tenure-track job search (1)

*Letter writer*, nomination of professor for university teaching award (1)

*Participant*, Loyola Math Teachers' Circle, Fall 2015

*Participant*, Brazos Valley Math Teachers' Circle (College Station, TX), Spring 2009–Spring 2010

*Panelist*, Mathematical Biology REU "Grad School Informational" (TAMU), July 2008

**PROFESSIONAL SOCIETIES**

American Mathematical Society, 2000 to present

Association for Women in Mathematics, 2014 to present

Mathematical Association of America, 2006 to present

**PERSONAL INFORMATION**

**Citizenship:** *United States of America* (Born: Lafayette, Louisiana).

**Languages:** English (native), French (working).