

# Catherine Godfrey

## Curriculum Vitae

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- CONTACT *Email:* [godfrey@math.uh.edu](mailto:godfrey@math.uh.edu) *Webpage:* [www.math.uh.edu/~godfrey](http://www.math.uh.edu/~godfrey)
- EDUCATION **University of Houston**, Houston, Texas **May 2017**  
*The Honors College*  
B.S. in Mathematics  
Minor in Chemistry  
GPA: 3.86, GPA in Mathematics: 4.00
- PRESENTATIONS **Nebraska Conference for Undergraduate Women** **February 2017**  
*University of Nebraska-Lincoln, Lincoln, Nebraska*  
Title: A Voting Method for Multiple Candidates
- Texas Undergraduate Math Conference** **October 2016**  
*Lamar University, Beaumont, Texas*  
Title: A Voting Method for Multiple Candidates
- Undergraduate Research Day** **October 2016**  
*University of Houston, Houston, Texas*  
Poster presentation on “Voting Methods for Elections with Three or More Candidates”.
- RESEARCH **Summer Undergraduate Research Fellowship (SURF)** **June 2016 – October 2017**  
Research on “Voting Methods for Elections with Three or More Candidates”. We developed a method for producing ranked outcomes in elections with multiple candidates and performed a mathematical analysis of this method’s properties. SURF participants are chosen from a competitive pool of applicants based on a research proposal submitted jointly with their faculty advisor. SURF provides \$3,800 for research support over a summer.
- Provost’s Undergraduate Research Scholarship (PURS)** **December 2015 – June 2016**  
Research on “Ranking Algorithms and Recommendation Systems”. We studied existing ranking algorithms and examined how assumptions may be modified to adapt models and create more accurate ranking algorithms for specific situations. PURS participants are chosen from a competitive pool of applicants based on a research proposal submitted jointly with their faculty advisor. PURS provides \$1,000 for research support during a semester.
- CONFERENCES **Great Plains Operator Theory Symposium** **May 2017**  
ATTENDED *Texas Christian University, Fort Worth, Texas*
- Gulf States Math Alliance Conference** **March 2017**  
*University of Texas at Arlington, Arlington, Texas*  
The Gulf States Math Alliance’s annual regional conference, which aims to encourage undergraduates to attend graduate school in mathematics or mathematically-related discipline.
- Nebraska Conference for Undergraduate Women in Mathematics** **February 2017**  
*University of Nebraska, Lincoln, Nebraska*  
University of Nebraska at Lincoln Department of Mathematics’ annual conference that gives female

undergraduate students the opportunity to meet other female mathematicians and mathematics majors as well as the chance to learn about graduate school and research opportunities.

**Field of Dreams Conference** **November 2016**  
*St. Louis, Missouri*

The Math Alliance's annual national conference, which aims to encourage undergraduates to attend graduate school in mathematics or mathematically-related discipline.

**Texas Undergraduate Math Conference** **October 2016**  
*Lamar University, Beaumont, Texas*

Mathematics Association of America's annual Texas conference for undergraduate math majors to present research and network with professors and students across the state.

**Nebraska Conference for Undergraduate Women in Mathematics** **January 2016**  
*University of Nebraska, Lincoln, Nebraska*

University of Nebraska at Lincoln Department of Mathematics' annual conference that gives female undergraduate students the opportunity to meet other female mathematicians and mathematics majors as well as the chance to learn about graduate school and research opportunities.

**Field of Dreams Conference** **November 2015**  
*Birmingham, Alabama*

The Math Alliance's annual national conference, which aims to encourage undergraduates to attend graduate school in mathematics or mathematically-related discipline.

**Graduate Research Opportunities for Women (GROW) Conference** **October 2015**  
*Northwestern University, Evanston, Chicago*

Mathematics Department at Northwestern University's annual conference for female undergraduate students interested in graduate school and research.

ACADEMIC  
INVOLVEMENT

**Cougars and Houston Area Math Program (CHAMP)** **August 2015 – Spring 2017**  
*Facilitator*

CHAMP is a volunteer outreach program that encourages middle school and high school students from underserved Houston communities to attend college and major in STEM fields. As a facilitator, I create and teach mathematics lessons, provide tutoring, and help organize enrichment activities.

**Pi Mu Epsilon** **Spring 2016 – Spring 2017**  
*Student President of Texas Theta Chapter*

Pi Mu Epsilon is the National Honor Society for Mathematics. As president of the Texas Theta Chapter, I organize events, recruit new members, and keep chapter records.

**Math Alliance** **Spring 2015 – Spring 2017**  
*Member*

The Math Alliance is a national organization that serves traditionally underrepresented students who wish to pursue a doctoral degree in the mathematical sciences.

**Scholar Enrichment Program (SEP)** **Spring 2016 – Spring 2017**  
*SEP Scholar*

SEP is a community within the University of Houston College of Natural Science and Mathematics whose purpose is to promote the academic enhancement and retention of undergraduate students.

**Houston-Louis Stokes Alliance for Minority Participation** **Spring 2016 – Spring 2017**  
*Member*

The Houston-Louis Stokes Alliance for Minority Participation (H-LSAMP) works to increase diversity in STEM disciplines by supporting females, minorities, and first-generation college students.

PROFESSIONAL  
EXPERIENCE

**Department of Mathematics, University of Houston**

**Fall 2016 – Spring 2017**

*Grader and Recitation Leader*

Graded and led a recitation for Transitions to Advanced Mathematics, an introduction to proofs course.

AWARDS AND  
SCHOLARSHIPS

**Charles P. Benner Scholarship**

**Fall 2016**

*\$1,000*

Awarded by the University of Houston Department of Mathematics for outstanding academic record.

**Summer Undergraduate Research Fellowship**

**Summer 2016**

*\$3,800*

Awarded by the University of Houston Office of Undergraduate Research to conduct a research project during Summer 2016.

**Provost Undergraduate Research Scholarship**

**Spring 2016**

*\$1,000*

Awarded by the University of Houston Office of Undergraduate Research to conduct a research project during the Spring 2016 semester.

**H-LSAMP Scholarship**

**Spring 2016 – Spring 2017**

*\$1,000*

Awarded by the Houston-Louis Stokes Alliance for Minority Participation, an organization for the advancement of minority, female, and first-generation college student participation.

**Academic Excellence Scholarship**

**Fall 2014 – Spring 2017**

*\$20,000*

Awarded by the University of Houston for outstanding academic record.