

# Julie Lang

Email: [jelang@email.sc.edu](mailto:jelang@email.sc.edu)

Phone: (859) 638-6024

[www.people.sc.edu/jelang](http://www.people.sc.edu/jelang)

## Education:

Enrolled in Ph.D. program at University of South Carolina, Aug 2015 – present

1 semester in Ph.D. program Universidad de Puerto Rico Río Piedras Aug 2014-Dec 2014;

Master's degree:

Mathematics

Kansas State University, 2012-2014

Adviser: Dr. Sarah Reznikoff

Bachelor's degrees:

Area of concentration: Mathematics;

Majors: Physics and Spanish

Morehead State University, 2008-2012

## Teaching Experience:

- Calculus I Lecture and Recitation (USC)
- Calculus II Recitation (USC)
- Business Calculus (KSU)
- Calculus I Recitation (KSU)
- Studio College Algebra Recitation (KSU)
- Plane Trigonometry Recitation (KSU)
- College Algebra Recitation (KSU)
- Tutor (USC, Sylvan Learning Center, Educational Supportive Services, UPR, KSU)

**Recent Formal Presentations:** Presented results of research projects

- Kentucky/Kansas Section Mathematics Association of America 2010-2012, 2014 (resp.)
- MathFest 2012
- Instituto Tecnológico de Costa Rica 2012
- Kentucky Academy of Science 2012
- Bluegrass Undergraduate Mathematics Symposium 2012

## Distinctions:

- Outstanding First-year Graduate Student nominee: teaching (2016)
- Totally Tutoring award nominee (2015)
- Outstanding Undergraduate Student, dept. Math, Computer Science, & Physics (2012)
- Graduated Morehead State magna cum laude (2012)
- Co-president Morehead State Physics and Pre-Engineering Club 2011-2012
- Co-vice president Morehead State Math, Computer Science, and Physics Club 2010-2011

**Research Projects:** Worked with faculty mentor and in small groups investigating the following areas, creating and proving theorems, and communicating the results

- Graphs admitting  $(1, \leq 2)$ -identifying codes
- Spring number of a graph and graphs with equal domination and identification number
- Paving success and college readiness in mathematics
- Modeling heat transfer on various grids with discrete exterior calculus
- Global properties of preferential attachment graphs
- Mathematics college readiness project
- Monte Carlo simulation of Ising model metastable decay on hyperbolic plane / Archimedean solids
- Is lecture making a difference in learning college algebra?
- Statistical analysis of neck endurance data