

# Catherine Farkas

*Mathematician*

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## EDUCATION

- 2009–Present **Master of Science in Mathematics**, *University of Illinois at Chicago, USA.*  
- Concentrate in Pure Mathematics.
- 2005–2009 **Bachelor of Arts**, *Pomona College, Claremont, CA.*  
- Major in Pure Mathematics and Chemistry
- UNDERGRADUATE THESIS
- title *4-Ravels and Their Relationship to Tangles*
- supervisor Professor Erica Flapan
- description Proved that given any rational 2-string tangle in standard representation, if any crossing is replaced with a vertex the resulting graph will not be a 4-ravel

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## EXPERIENCE

### RESEARCH

- 2009 **Independent Study**, *Harvey Mudd College.*  
- Explored the intersection of abstract algebra and chemistry

### TEACHING

- 2009-present **Graduate Teaching Assistant**, *Department of Mathematics, University of Illinois at Chicago.*  
- Taught discussion section for Mathematical Reasoning
- 2008-2009 **Undergraduate Teaching Assistant**, *Department of Mathematics, Pomona College.*  
- Conducted sessions to clarify material for Introduction to Analysis

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## PUBLICATIONS

- 2009 *How Mickey Mouse has Improved Society.* Farkas, C. Disney in the Modern World. June 2009.  
-A look at his contributions to everyday life, including a unique angle focusing on his eminence in baking and kitchenware.
- 2008 *Why Brownies are also Cookies.* Farkas, C. Debates in Baking. August 2008.  
-A compelling argument showing that brownies are in fact a type of cookie.

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## INVITED LECTURES

- 2009 *4-Ravels and Their Relationship to Tangles.* Southern California Student Conference on Spatial Graphs, Caltech, April 25, 2009.

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## RECOMENDATIONS

### Professor Erica Flapan

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