

# Ryan Arredondo

## *Curriculum Vita*

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### Contact

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### Education

- M.A. in Mathematics                      University of South Florida, Tampa, FL                      08/2012 – present  
Thesis: Properties of Graphs used to Model DNA Recombination  
Advisor: Nataša Jonoska
- B.A. in Mathematics                      University of South Florida, Tampa, FL                      08/2008 – 05/2012  
Minor: German

### Presentations

- *A Mathematical Model for Processes of Nested DNA Recombination* (Poster)                      10/25/2013  
University of South Florida Oktoberfest                      Tampa, FL
- *Reductions On Double Occurrence Words*                      03/08/2013  
44th Southeast. Intl. Conf. on Comb. Graph Th. and Comp.                      Boca Raton, FL
- *Nesting Index for Assembly Words*                      08/03/2012  
Pi Mu Epsilon National Meeting at MAA Mathfest                      Madison, WI
- *Reductions of Assembly Words*                      11/18/2011  
University of South Florida Math Club                      Tampa, FL

### Publications

1. Ryan Arredondo. Reductions on Double Occurrence Words. Proceedings of the Fourty-fourth Southeastern International Conference on Combinatorics, Graph Theory and Computing. *Congressus Numerantium* (to appear)

### Relevant Experience

#### Graduate Research Assistant

USF Faculty Grant                      University of South Florida, Tampa, FL                      08/2013 – 05/2014

- Implemented an algorithm to compute the genera of surfaces into which certain 4-valent rigid vertex graphs can be cellularly embedded
- Prepared research poster for 2013 USF Oktoberfest Research Symposium



## Computer Skills

- Operating systems used on a daily basis: Windows XP, Windows 7, Linux (Ubuntu, Arch)
- Experience in: Python, VB (for applications), C, JavaScript, L<sup>A</sup>T<sub>E</sub>X, PostScript
- Microsoft Office: Excel, Outlook, Word, Powerpoint, Visio