

# Ross Donatelli

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**Address:** Melbourne, FL

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## RELEVANT EXPERIENCE

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### Ohio State Graduate Research & Teaching Assistantship

The Ohio State University

August 2015 - Current  
Columbus, OH

- *Numerical Methods for Determining Multistationarity in Chemical Reaction Networks*
- Developing on CoNtRol (<http://control.math.wvu.edu/control/>)
- Producing numerical sampling methods to determine stable states in multidimensional space
- Lecture and grading of Introduction to Computer Programming in Java

### Analytical Software Intern

ENSCO, Inc.

May - August 2015 & 2017  
Melbourne, FL

- Statistical analysis of patterns using Machine Learning and other techniques in R
- Produced tools using Java and RESTful services

### Student Research Intern

North Carolina State University

May 2014 - July 2014  
Raleigh, NC

- *Computational Model of the Thyroid Hormone Homeostasis and its Manipulation by Chemicals*
- Created a PBPK Model describing the dynamics of PTU in the body

### Student Research Intern

Virginia Bioinformatics Institute, Virginia Polytechnic Institute

May 2013 - August 2013  
Blacksburg, VA

- *A Regulatory DNA Mismatch Repair Network and the Role of MicroRNAs*
- Established a model of network interactions of DNA mismatch repair
- Presented at MBI Capstone Conference at The Ohio State University

### Math Advancement Tutor

Florida Tech Mathematics Advancement Center

September 2014 - May, 2015  
Melbourne, FL

- Tutored students for several mathematics courses: Calculus I – III, Probability & Statistics, Discrete Mathematics, Ordinary and Partial Differential Equations

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## EDUCATION

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### Masters of Science, Computer Science

The Ohio State University, Columbus, OH

GPA: 3.55/4.0, Graduate Fellow  
Expected Graduation: August 2017

### Bachelors of Science, Biomathematics, Minor-Computer Science

Florida Institute of Technology, Melbourne, FL

GPA: 3.85/4.0  
May, 2015

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## TECHNICAL SKILLS

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Programming Languages: Java, MATLAB, R, Octave, C++, Python, HTML, JavaScript, PHP  
Frameworks, Tools, & Software: XCode (iOS), Android Studio, VirtualBox, Git, Apache, Tomcat, Ubuntu, PuTTY  
Database Technologies: Amazon Web Services (DynamoDB & Elastic Beanstalk), SQLite, Pythia (OSU developed)

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## ORGANIZATIONS, HONORS, & AWARDS

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2015 - 2016 The Ohio State University Fellowship Recipient  
2013 - 2015 Allen S Henry Scholarship Recipient  
2014 - 2015 Distinguished Student  
2011 - 2013 Florida Tech NCAA Swim Team Division II

- 2012 - 2013 Athlete Scholar of the Year
- 2011 - 2013 Team Captain
- 2012 - 2013 SAAC Representative

2011 Merit Scholar  
2013 - 2015 Kappa Theta Epsilon Co-op & Internship Honor Society