Jonathan Goldfarb

Department of Mathematical Sciences Florida Institute of Technology 150 W. University Blvd Melbourne, FL 32901

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• http://jgoldfar.github.io

Education

Florida Institute of Technology

PhD, Applied Mathematics

Florida Institute of Technology

BS, Environmental Sciences

Melbourne, FL

2009-2016 (Expected)

Melbourne, FL

2005-2009

Experience

Florida Institute of Technology

Graduate Student Assistant

Melbourne

Fall 2009-Summer 2012, Fall 2015-Spring 2016

- Worked in: Calculus 1 (TA coordinator) and Calculus 2 Differential Equations with Linear Algebra Introduction to PDE Models in Applied Math Applied Statistical Analysis Probability and Statistics Applied Discrete Math Theory of Stochastic Processes
- o Cofounder and president of Florida Tech SIAM Student chapter, 2012-2014.
- o Developed materials for computational math labs.

Florida Institute of Technology

Melbourne

Instructor Fall 2012–Spring 2015

o Taught Algebra, Calculus, Introduction to PDE, and Statistics courses.

o SIAM Southeastern Atlantic Section conference organizer under chair Dr. Ugur Abdulla.

Florida Tech REU in PDEs and Dynamical Systems

Melbourne

Graduate Mentor

Summer 2014, Summer 2015

- o Completed research and mentored students on advanced level material.
- o Generated numerical codes and documents for groups working in Nonlinear PDEs, Inverse Free Boundary Problems, and Dynamical Systems and Chaos Theory
- o Created website and application management system under http://math.reu.fit.edu

Core Skills

Platforms: Linux, Unix, and Windows

Research Interests and Topics

PDE: Inverse problems, mathematical physics and modeling, qualitative theory for nonlinear equations, free boundary problems, control problems, degenerate and non-uniformly parabolic equations

Optimization, Functional Analysis, Numerical Methods and Algorithm Development, and Geophysical Fluid Dynamics.

Publication/conference talks and more details in my CV at http://jgoldfar.github.io/media/cv.pdf.