

David J. Cattan

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EDUCATION

- 2011 - 2017 **PhD Mathematics**
College of Letters and Science
University of California, Santa Barbara
Dissertation: *On the Numerics, Generation, and Scaling of Fluvial Landscapes*
Advisor: Björn Birnir
- 2011 - 2015 **MA Applied Mathematics**
College of Letters and Science
University of California, Santa Barbara
- 2007 - 2011 **BS Mathematics**
BS Computer Science
College of Creative Studies
University of California, Santa Barbara

ACADEMIC EXPERIENCE

- 2014 - 2017 **Teaching Assistant**
University of California, Santa Barbara
Courses Assisted:
- Differential and Integral Calculus
- Calculus for the Social and Life Sciences
- Summer 2016 **Teaching Associate** (Instructor of Record)
University of California, Santa Barbara
Calculus for the Social and Life Sciences II
- Spring 2014 **Course Grader**
University of California, Santa Barbara
Graded weekly assignments on combinatorics.
- 2013 - 2014 **Reviewer**
International Journal of Nonlinear Sciences and Numerical Simulation
- 2009 - 2010 **Course Reader**
University of California, Santa Barbara
Wrote framework code (C++) for introductory computer science course; including skeleton code and unit-testing functions.

NONACADEMIC EXPERIENCE

- 2012 - 2017 **Instructional Design Assistant**
Collaborate Faculty Resource Center
University of California, Santa Barbara
Provides specialized consultation and support for faculty on the University's Online Learning Management System, including answering questions via email, one-on-one drop-in assistance, and the creation of online documentation.
- 2010 - 2012 **Operations Coordinator**
Collaborate Student Support Center
University of California, Santa Barbara
Oversaw daily operation of the Student Help Desk: managed consultants, answered phone and email questions primarily about the University email system, managed the loaning and returning of software, troubleshoot technical problems, and enforced lab policies.
Reliability Coordinator: Responsible for keeping employee policies updated, ensuring employees were following all policies, and initiating proper disciplinary procedures when needed.

2009 - 2010 **Student Consultant**
Collaborate Student Support Center
University of California, Santa Barbara
Cleaned labs daily, answered guests' computer related questions, troubleshot technical problems, and enforced lab policies.

PUBLICATIONS

In Review *Numerical Analysis of Fluvial Landscapes*

OUTREACH ACTIVITIES

2016 - 2017 **Chapter President**
Society for Industrial and Applied Mathematics (SIAM) Student Chapter
University of California, Santa Barbara

2013 - 2017 **Member**
Society for Industrial and Applied Mathematics (SIAM) Student Chapter
University of California, Santa Barbara

PRESENTATIONS

June 2017 *Fluvial Landscapes: The Next Generation*
Ph.D. Defense
University of California, Santa Barbara

May 2017 *Recursive Frogs*
Society for Industrial and Applied Mathematics (SIAM) Seminar
University of California, Santa Barbara

October 2016 *Fractal Interpolation*
Society for Industrial and Applied Mathematics (SIAM) Seminar
University of California, Santa Barbara

April 2016 *Fractals, Interpolation, and Variograms; Oh My!*
Society for Industrial and Applied Mathematics (SIAM) Seminar
University of California, Santa Barbara

September 2015 *Simulations of Fluvial Landscapes*
Advancement Talk
University of California, Santa Barbara

December 2013 *Simulations of Fluvial Landscapes*
American Geophysical Union (AGU) Fall Meeting
San Francisco, CA

COMPUTER SKILLS

Familiar with Matlab, Python, C++, Java, HTML, CSS, PHP, JavaScript, and L^AT_EX.

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