

Huy Dinh

CONTACT INFORMATION	Huy Dinh Department of Mathematics 155 S 1400 E RM 233 Salt Lake City, UT 84112-0090	hdinh@math.utah.edu math.utah.edu/~hdinh 801-581-7653
EDUCATION	Ph.D., Applied Mathematics , University of Utah Advisor: Professor Kenneth M. Golden Research Topics: simulations of floe scale dynamics, anomalous diffusion in sea ice, fractional diffusion equations, numerical methods for nonlocal PDEs M.S., Statistics , University of Utah Advisor: Professor Tom Alberts Research Topics: fractional Brownian motion (fBM) and autoregressive integrated moving average (fARIMA), continuous time random walks (CTRWs), Hurst exponent estimation B.S., Mathematics , University of Houston Minor: Physics Research Topics: mathematical image processing, applied algebraic topology, inverse problems, machine learning methods	Expected May 2020 Expected August 2019 May 2014
EMPLOYMENT	Graduate Research and Teaching Assistant , University of Utah Undergraduate Research Assistant , University of Houston	August 2014–current Spring 2010–May 2014
HONORS AND AWARDS	NSF Graduate Research Fellowship Program Honorable Mention Travel Award to attend Joint Mathematics Meetings Travel Award to attend PIMS Conference on the Mathematics of Sea Ice NSF Graduate Research Fellowship Program Honorable Mention Provost's Undergraduate Research Scholarship	2016 2016 2015 2015 2013
SUBMITTED PUBLICATIONS	H. Dinh, H. Antil, Y. Chen, E. Cherkaev and A. Narayan. "Model reduction for fractional elliptic problems using Kato's formula." <i>IMA Journal of Numerical Analysis</i> (2019) H. Dinh, D. Jimenez, M. Papadakis, F. Laezza, D. Labate. "Automated quantitative analysis of confocal images of neuronal network cultures." <i>The 2013 International Symposium on Biomedical Imaging: From Nano to Macro, San Francisco, CA, USA, 8-11, 2013</i> (2013)	
ATTENDED CONFERENCES	Second SIAM Wasatch Student Chapters Conference Joint Mathematics Meeting MRC on Differential Equations, Probability and Sea Ice PIMS Conference on the Mathematics of Sea Ice 37th Annual Texas PDE Conference Society for Neuroscience Annual Meeting	April 2019 January 2016 June 2015 September 2015 March 2014 October 2012

PRESENTATIONS

"Anomalous Diffusion in Sea Ice"	<i>SIAM Wasatch Student Chapters Conference, Utah State University</i>	April 2019
"Eigenfaces, a Perspective on a Machine's Perspective"	<i>Applied Math Collective, University of Utah</i>	April 2019
"Anomalous Diffusion in Sea Ice"	<i>Oral Qualifying Exam, University of Utah</i>	February 2019
"Factorization of Functions"	<i>Applied Math Collective, University of Utah</i>	July 2018
"Fractional Brownian Motion: Formulation and Applications"	<i>Applied Math Collective, University of Utah</i>	February 2018
"Diffusion on Fractals"	<i>Graduate Student Colloquium, University of Utah</i>	February 2016
"Vibration Suppression in Coupled Spring and Mass System" (poster)	<i>37th Annual Texas PDE Conference, University of North Texas</i>	March 2014
"Vibration Suppression in Coupled Spring and Mass System" (poster)	<i>Undergraduate Research Day, University of Houston</i>	October 2013
"Automated quantitative image analysis of voltage-gated Na ⁺ channels at the AIS" (poster)	<i>Society for Neuroscience Annual Meeting</i>	October 2012
"Soma Detection and Persistent Homology" (poster)	<i>Spring Academic Showcase, University of Houston</i>	April 2013
"Self-Assembled Nano-Patterns by Off-normal Gas Cluster Ion Beam Bombardment for Biological Applications" (poster)	<i>Undergraduate Research Day, University of Houston</i>	October 2012

MENTORING

Graduate students		
Rebecca Hardenbrook		Fall 2018–Spring 2019
Sean Groathouse		Fall 2018–Spring 2019
Undergraduate students		
Jacqueline Rich (co-advised with Kenneth M. Golden)		Fall 2018
Everest Fang (co-advised with Kenneth M. Golden)		Summer 2015

PROFESSIONAL
SERVICES AND
OUTREACH

University of Utah SIAM Student Chapter President	Fall 2014–Summer 2018
organized the First SIAM Wasatch Student Chapters Conference	
<i>University of Utah</i>	April 2018
organized SIAM SC Interdepartmental BBQ	
<i>University of Utah</i>	June 2018
organized UoU and Westminster COMAP Solutions Presentation	
<i>University of Utah</i>	February 2016
organized UU Graduate Alumni Panel	
<i>University of Utah</i>	October 2015
Outreach and Volunteering	
ACCESS panel member	
<i>ACCESS program, University of Utah</i>	Summer 2018
Math Demonstrations Table	
<i>Red, White and U Day, University of Utah</i>	Summer 2018
Superconducting Cable Demonstration	
<i>Physics Outreach, Harmony School of Technology- Houston</i>	December 2011

Physics Demonstrations <i>Physics Outreach, Quail Valley Middle School</i>	May 2011
Boat Attendant <i>UH Cardboard Boat Regatta, University of Houston</i>	April 2011

COMPUTER SKILLS Experience with L^AT_EX, MatLab, Mathematica, HTML, Python, Git, C++, Java, Windows, Linux.

TEACHING EXPERIENCE	Lecturer , University of Utah	
	Math 3070, Applied Statistics I	Fall 2019
	Math 3150, Partial Differential Equation for Engineers	Summer 2019
	Math 1070, Introduction to Statistical Inference	Spring 2019
	Math 1070, Introduction to Statistical Inference	Fall 2018
	Math 3160, Applied Complex Variables	Summer 2018
	Math 2250, Differential Equation and Linear Algebra (lab)	Spring 2018
	Math 1090, Business Algebra	Fall 2017
	Math 3160, Applied Complex Variables	Summer 2017
	Math 1060, Trigonometry	Spring 2017
	Math 1090, Business Algebra	Fall 2016
	Math 1090, Business Algebra	Spring 2016
	Invited Lectures , University of Utah	
	Vector Calculus and PDEs, one lecture	Summer 2018
	Math 2210 Calculus III , two lectures	Spring 2018
	Math 5750/6880, Mathematics and Climate, one lecture	Fall 2017
	Math 1060, Trigonometry, one lecture	Spring 2017
	Math 2210, Calculus III, one lecture	Fall 2015
	Lab/Teaching Assistant , University of Utah	
	Math 2250, Differential Equation and Linear Algebra, Lab	Spring 2018
	Math 2210, Calculus III, TA	Fall 2015
	Math 2250, Differential Equation and Linear Algebra, Lab	Fall 2014

FEATURED ARTICLES [UH Putnam Team Ranked 87th out of 578 Teams from U.S./Canadian Institutions](#)