Huy Dinh

CONTACT INFORMATION	Huy Dinh Department of Mathematics 155 S 1400 E RM 233	hdinh@math.utah.edu math.utah.edu/~hdinh 801-581-7653	
	Salt Lake City, UT 84112-0090	001-901-7099	
EDUCATION	Ph.D. Mathematics, University of Utah	Expected May 2020	
	Advisor: Distingushed Professor Kenneth Golden Research Topics: simulations of floe scale dynamics in the polar sea ice pack, modeling anomalous diffusion in sea ice dynamics, numerical methods for nonlocal PDEs.		
	M.S. Statistics, University of Utah	Expected August 2019	
	Advisor: Assistant Professor Tom Alberts		
	Research Topics: fractional Brownian motion (fBM), fractional autoregressive integrated moving average (fARIMA) time series, Continuous Time Random Walks (CTRWs), Hurst exponent estimation.		
	B.S. Mathematics, University of Houston	May 2014	
	Minor: Physics		
	Research Topics: mathematical image processing, applied algebraic topology, inverse problems, machine learning methods.		
EMPLOYMENT	Graduate Research and Teaching Assistant, University of Utah Undergradaute Research Assistant, University of Houston	August 2014-current Spring 2010-May 2014	
Honors and	NSF Graduate Research Fellowship Program Honorable Mention	2016	
Awards	Travel Award to attend Joint Mathematics Meetings, Seattle, WA	2016	
	Travel Award to attend Pacific Institute for the Mathematical Sciences Conference on the Mathematics of Sea Ice, Vancouver, BC 2015		
	NSF Graduate Research Fellowship Program Honorable Mention	2015	
	Provost's Undergraduate Research Scholarship	2013	
Publications	H. Dinh, E. Cherkaev, C. Strong and K. M. Golden, Floe scale model of anomalous diffusion in sea ice dynamics, in preparation, 2019.		
	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> , submitted, 2019.		
Conferences	Second SIAM Wasatch Student Chapters Conference, Logan, UT	April 2019	
Attended	Joint Mathematics Meeting, Seattle, WA	January 2016	
	Mathematics Research Communities on Differential Equations, Probability and Sea Ice, Snowbird, UT	June 2015	
	Pacific Institute for the Mathematical Sciences Conference		
	on the Mathematics of Sea Ice, Vancouver, BC	September 2015	
	37th Annual Texas PDE Conference, Denton, TX	March 2014	
	Society for Neuroscience Annual Meeting, New Orleans, LA	October 2012	

May 2011

Presentations	Anomalous Diffusion in Sea Ice Second SIAM Wasatch Student Chapters Conference, Utah State Univ	versity April 2019
	Eigenfaces, a Perspective on a Machine's Perspective Applied Math Collective, University of Utah	April 2019
	Factorization of Functions Applied Math Collective, University of Utah	July 2018
	Fractional Brownian Motion: Formulation and Applications Applied Math Collective, University of Utah	Feburary 2018
	Diffusion on Fractals Graduate Student Colloquium, University of Utah	Feburary 2016
	Vibration Suppression in Coupled Spring and Mass System (poster) 37th Annual Texas PDE Conference, University of North Texas	March 2014
	Vibration Suppression in Coupled Spring and Mass System (poster) Undergradaute Research Day, University of Houston	October 2013
	Automated quantitative image analysis of voltage-gated Na+ channels at the AIS (poster)	
	Society for Neuroscience Annual Meeting Soma Detection and Persistent Homology (poster) Spring Academic Showcase, University of Houston	October 2012 April 2013
	Self-Assembled Nano-Patterns by Off-Normal Gas Cluster Ion Beam	71pm 2010
	Bombardment for Biological Applications (poster) Undergraduate Research Day, University of Houston	October 2012
RESEARCH MENTORING	Undergraduate students Jacqueline Rich (co-advised with Kenneth Golden) Research Topic: stochastic differential equation model of sea ice thick	Fall 2018
	Everest Fang (co-advised with Kenneth Golden) Research Topic: simulation of advective diffusion processes	ring 2015 – Fall 2015
PROFESSIONAL	University of Utah SIAM Student Chapter President Fall First SIAM Wasatch Student Chapters Conference, organizer	2014–Summer 2018
SERVICES AND OUTREACH	University of Utah	April 2018
	SIAM Student Chapter Interdepartmental BBQ, organizer $University\ of\ Utah$	June 2018
	UU and Westminister COMAP Solutions Presentation, organizer ${\it University~of~Utah}$	Feburary 2016
	UU Graduate Alumni Panel, organizer University of Utah	October 2015
	Outreach and Volunteering Peer Mentoring Program University of Utah	all 2018–Spring 2019
	ACCESS Program for Women in Science and Mathematics Panel Mer ACCESS program, University of Utah	
	Math Demonstrations Table Red, White and U Day, University of Utah	Summer 2018
	Superconducting Cable Demonstration Physics Outreach, Harmony School of Technology- Houston	December 2011
	Physics Demonstrations	

Physics Outreach, Quail Valley Middle School

 $Computer\ Skills\ MatLab,\ Mathematica,\ R,\ Excel,\ HTML,\ Python,\ Git,\ C++,\ Java,\ Windows,\ Linux,\ LATEX.$

TEACHING	Instructor, University of Utah (full course responsibilities)	
EXPERIENCE	Math 3070: Applied Statistics I	Fall 2019
	Math 3150: Partial Differential Equations 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 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
	Substitute Teaching Lectures, University of Utah	
	Math 3140: 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 1210: Calculus I, Lab	Spring 2015
	Math 2250: Differential Equation and Linear Algebra, Lab	Fall 2014