Huy Dinh

CONTACT INFORMATION	Huy Dinh Department of Mathematics	hdinh@math.utah.edu math.utah.edu/~hdinh		
	155 S 1400 E RM 233 Salt Lake City, UT 84112-0090	801-581-7653		
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.			
	MStat, 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.			
ATTENDED	Second SIAM Wasatch Student Chapters Conference, Logan, UT	April 2019		
Conferences	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

Presentations	Anomalous Diffusion in Sea Ice		
T TELSEN TATIONS	Second SIAM Wasatch Student Chapters Conference, Utah State University	ersity 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 Society for Neuroscience Annual Meeting	at the AIS (poster) October 2012	
	Soma Detection and Persistent Homology (poster) Spring Academic Showcase, University of Houston	April 2013	
	Self-Assembled Nano-Patterns by Off-Normal Gas Cluster Ion Beam Bombardment for Biological		
	Applications (poster) Undergraduate Research Day, University of Houston	October 2012	
RESEARCH	Undergraduate students		
Mentoring	Jacqueline Rich (co-advised with Kenneth Golden) Research Topic: Stochastic differential equations model of sea ice thick	Fall 2018 ness	
	Everest Fang (co-advised with Kenneth Golden) Research Topic: Simulation of advective diffusive processes Spri	ng 2015 – Fall 2015	
Professional	University of Utah SIAM Student Chapter President Fall	2014–Summer 2018	
SERVICES AND OUTREACH	First SIAM Was atch Student Chapters Conference, organizer ${\it University~of~Utah}$	April 2018	
	SIAM SC Interdepartmental BBQ, organizer University of Utah	June 2018	
	UU and Westminister COMAP Solutions Presentation, organizer $University\ of\ Utah$	Feburary 2016	
	UU Graduate Alumni Panel, organizer $University\ of\ Utah$	October 2015	
	Outreach and Volunteering Peer Mentoring Program University of Utah Fai	ll 2018–Spring 2019	
	ACCESS Program for Women in Science and Mathematics Panel Mem 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	May 2011	

 $\label{eq:computer_skills} \mbox{ LeTeX}, \mbox{ Mathematica, R, Excel, HTML, Python, Git, C++, Java, Windows, Linux.}$

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TEACHING	Instructor, University of Utah (full course responsibilities)	
Experience	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 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