## Huy Dinh

Contact	Huy Dinh	hdinh@math.utah.edu	
Information	Department of Mathematics	${\rm math.utah.edu/}{\sim}{\rm hdinh}$	
	155 S 1400 E RM 233	801-581-7653	
	Salt Lake City, UT 84112-0090		
EDUCATION	Ph.D. Mathematics, University of Utah	Expected May 2020	
	Advisor: Distingushed Professor Kenneth Golden		
	Research Topics: simulations of floe scale dynamics in polar sea ice pack, anomalous diffusion in sea ice dynamics, numerical methods for nonlocal PDEs.		
	M.St. 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 process sing, 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	2016	
	Travel Award to attend Pacific Institute for the Mathematical Sciences Conference on the Mathematics of Sea Ice 2015		
	NSF Graduate Research Fellowship Program Honorable Mention		
	Provost's Undergraduate Research Scholarship	2013	
Publications	H. Dinh, K. M. Golden, E. Cherkaev and C. Strong. 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	April 2019	
Conferences	Joint Mathematics Meeting	January 2016	
	Mathematics Research Communities on Differential Equations, Probability and Sea Ice	June 2015	
	Pacific Institute for the Mathematical Sciences Conference		
	on the Mathematics of Sea Ice	September 2015	
	37th Annual Texas PDE Conference	March 2014	
	Society for Neuroscience Annual Meeting	October 2012	

**Summer 2018** 

 ${\bf December~2011}$ 

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Presentations	Anomalous Diffusion in Sea Ice SIAM Wasatch Student Chapters Conference, Utah State University	April 2019
	Eigenfaces, a Perspective on a Machine's Perspective Applied Math Collective, University of Utah	April 2019
	Anomalous Diffusion in Sea Ice Oral Qualifying Exam, University of Utah	Feburary 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  Vibration Suppression in Coupled Spring and Mass System (poster)	Feburary 2016
	37th Annual Texas PDE Conference, University of North Texas Vibration Suppression in Coupled Spring and Mass System (poster)	March 2014
	Undergradaute Research Day, University of Houston Automated quantitative image analysis of voltage-gated Na+ channels	October 2013 s at the AIS (poster)
	Society for Neuroscience Annual Meeting	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 MENTORING	Undergraduate students  Jacqueline Rich (co-advised with Kenneth M. Golden)  Research Topic: Stochastic simulations of sea ice thickness	Fall 2018
	Everest Fang (co-advised with Kenneth M. Golden)  Research Topic: Stochastic simulations of ice floe trajectories	ring 2015 – Fall 2015
Professional Services and Outreach	University of Utah SIAM Student Chapter President Fall The First SIAM Wasatch Student Chapters Conference, organizer University of Utah	l 2014–Summer 2018 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
	Oniversity of Other	October 2013
	Outreach and Volunteering Peer Mentoring Program University of Utah	all 2019 G 2010
	University of Utah  ACCESS Program for Women in Science and Mathematics Panel Mer	all 2018–Spring 2019
	ACCESS program, University of Utah	Summer 2018
	Math Demonstrations Table	Summer 2018

Red, White and U Day, University of Utah

 $Physics\ Outreach,\ Harmony\ School\ of\ Technology-\ Houston$ 

Superconducting Cable Demonstration

Physics Demonstrations

Physics Outreach, Quail Valley Middle School

May 2011

Boat Attendant

UH Cardboard Boat Regatta, University of Houston

April 2011

Fall 2014

Computer Skills Late, Mathematica, R, Excel, HTML, Python, Git, C++, Java, Windows, Linux.

TEACHING	Instructor, University of Utah	
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	<b>Summer 2018</b>
	Math 1090: Business Algebra	Fall 2017
	Math 3160: Applied Complex Variables	<b>Summer 2017</b>
	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

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