Huy Dinh

CONTACT INFORMATION	Huy Dinh Department of Mathematics 155 S 1400 E RM 233 Salt Lake City, UT 84112-0090	$\begin{array}{c} {\rm hdinh@math.utah.edu} \\ {\rm math.utah.edu/}{\sim} {\rm hdinh} \\ {\rm 801\text{-}581\text{-}7653} \end{array}$	
EDUCATION	Ph.D. Applied Mathematics, University of Utah	Expected May 2020	
	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	Expected August 2019	
	Advisor: Professor Tom Alberts		
	Research Topics: fractional Brownian motion (fBM), autoregressive integrated moving average (fARIMA), 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 machine learning methods	topology, inverse problems,	
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 PIMS Conference on the Mathematics of Sea Ice 2015		
	NSF Graduate Research Fellowship Program Honorable Mention	2015	
	Provost's Undergraduate Research Scholarship	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 Franciso, CA, USA, 8-11, 2013</i> (2013)		
ATTENDED CONFERENCES	Second SIAM Wasatch Student Chapters Conference	April 2019	
	Joint Mathematics Meeting	January 2016	
	MRC on Differential Equations, Probability and Sea Ice	June 2015	
	PIMS 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

 ${\bf December~2011}$

Presentations	"Anomalous Diffusion in Sea Ice" SIAM Wasatch Student Chapters Conference, Utah State Universit	y April 2019	
	"Eigenfaces, a Perspective on a Machine's Perspective"	_	
	Applied Math Collective, University of Utah "Anomalous Diffusion in Sea Ice" Oral Qualifying Exam, University of Utah	April 2019 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	Feburary 2016	
	"Vibration Suppression in Coupled Spring and Mass System" (pos 37th Annual Texas PDE Conference, University of North Texas	-	
	"Vibration Suppression in Coupled Spring and Mass System" (pos Undergradaute Research Day, University of Houston		
	"Automated quantitative image analysis of voltage-gated Na+ char Society for Neuroscience Annual Meeting		
	"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	
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 organized the First SIAM Wasatch Student Chapters Conference University of Utah	Fall 2014–Summer 2018 April 2018	
	organized SIAM SC Interdepartmental BBQ University of Utah	June 2018	
	organized UU and Westminister COMAP Solutions Presentation University of Utah	Feburary 2016	
	organized UU Graduate Alumni Panel University of Utah	October 2015	
	Outreach and Volunteering		
	ACCESS panel member ACCESS program, University of Utah	Summer 2018	
	Math Demonstrations Table	0 2010	

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

Computer Skills LaTeX, MatLab, Mathematica, R, Excel 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 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	
	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

FEATURED ARTICLES UH Putnam Team Ranked 87th out of 578 Teams from U.S./Canadian Institutions