Huy Dinh

CONTACT
INFORMATION

Huy Dinh
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EDUCATION

Ph.D., Applied Mathematics, University of Utah **Expected May 2020**

thesis advisor: Prof. 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: Prof. 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 **May 2014**

minor: Physics

research topics: mathematical image processsing, applied algebraic topology, inverse problems, machine learning methods

EMPLOYMENT

graduate research and teaching assistant, University of Utah **August 2014–current**
undergraduate research assistant, University of Houston **Spring 2010–May 2014**

HONORS AND
AWARDS

NSF GRFP Honorable Mention	**2016**
Travel Award to attend Joint Mathematics Meetings	**2016**
Travel Award to attend PIMS Conference on the Mathematics of Sea Ice	**2015**
NSF GRFP Honorable Mention	**2015**

SUBMITTED
PUBLICATIONS

Dinh, Huy and Antil, Harbir and Chen, Yanlai and Cherkaev, Elena and Narayan, Akil (2019) *Model reduction for fractional elliptic problems using Kato's formula*, [arXiv:1904.09332].

ATTENDED
CONFERENCES

SIAM Wasatch Student Chapters Conference	**2019**
Joint Mathematics Meeting	**2016**
MRC on Differential Equations, Probability and Sea Ice	**2015**
PIMS Conference on the Mathematics of Sea Ice	**2015**

PRESENTATIONS

"Anomalous Diffusion in Sea Ice," SIAM Wasatch Student Chapters Conference, University of Southern Utah **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**

Mentoring	**Graduate students**	
	Rebecca Hardenbrook	**Fall 2018 – Spring 2019**
	Sean Groathouse	**Fall 2018 – Spring 2019**
	Undergraduate students	
	Jacqueline Rich (coadvised with Kenneth Golden)	**Fall 2018**
	Everest Fang (coadvised with Kenneth Golden)	**Summer 2015**

Professional Activities	**University of Utah SIAM Student Chapter President**	**Fall 2014–Summer 2018**
	organized the first SIAM Wasatch Student Chapters Conference	**Spring 2018**
	organzied SIAM SC interdepartmental BBQ	**Summer 2018**
	organzied COMAP awards seminar	**Spring 2016**

Computer Skills	Experience with LaTeX, MatLab, Mathematica, HTML, Python, Git, C++, Java, Windows, Linux.

Teaching Experience	**Teaching Assistant**, 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 2210 Calculus III (two invited lectures)	**Spring 2018**
	Math 2250, Differential Equation and Linear Algebra (Lab)	**Spring 2018**
	Math 5750/6880, Mathematics and Climate (one invited lecture)	**Fall 2017**
	Math 1090, Business Algebra	**Fall 2017**
	Math 3160, Applied Complex Variables	**Summer 2017**
	Math 1060, Trigonometry (one invited lecture)	**Spring 2017**
	Math 1060, Trigonometry	**Spring 2017**
	Math 1090, Business Algebra	**Fall 2016**
	Math 1090, Business Algebra	**Spring 2016**
	Math 2210, Calculus III, TA (one guest lecture)	**Fall 2015**
	Math 1210, Calculus I (Lab)	**Spring 2015**
	Math 2250, Differential Equation and Linear Algebra (Lab)	**Fall 2014**