Dylan Murphy

Personal Information

Curriculum Vitae

 $427 \ E \ Drachman \ St.$ $Tucson, \ AZ \ 85705$ $\gg +1 \ (520) \ 328 \ 4272$ $\bowtie \ dylan@cotangent.space$ $\stackrel{\frown}{=} \ mpdylan.github.io$

	Dylan Joseph Murphy October 17, 1987 (Arizona, USA) USA	
	Education	
2006–2010 2010–present	S.B., Mathematics, Physics, University of Chicago, Chicago, Illinois. Ph.D. Candidate, Mathematics, University of Arizona, Tucson, Arizona, Expected graduation summer 2018.	
	Employment	
2017-present	Lecturer, University of Arizona School of Information, Tucson, Arizona.	
	Research Interests Output Ou	
	Seminar Talks	
Sep. 2, 2014	Tridiagonal matrix models and stochastic operato	Dynamics, and Applications Seminar
Apr. 22, 2015	Random orthogonal polynomials on the line and the circle	UA Mathematics Mathematical Physics and Probability Seminar
Nov. 10, 2015	Difference equations and scattering problems for orthogonal polynomial recurrence coefficients	UA Mathematics Analysis, Dynamics, and Applications Seminar
Apr. 27, 2016	Darboux transformations: from continous to discr	Physics and Probability Seminar
Oct. 9, 2016	Geometry of discrete Schrödinger operators	AMS Western Sectional Meeting Special Session on Integrable Systems and Soliton Equations (invited)
April 1, 2017	Algebraic geometry of scattering theory for orthogonal polynomials S_{I}	IMACS Conference on Nonlinear Waves pecial Session on Painleve Equations, Integrable Systems, and Random Matrices (invited)

Fellowships and Awards

Fall 2014 U. of Arizona Mathematics Department VIGRE Fellowship

2016 U. of Arizona College of Science Galileo Circle Scholar

Teaching

As Graduate Teaching Assistant/Associate at U. of Arizona Mathematics:

Math 112 College Algebra	Spring 2011, Summer 2015 (online)
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Math 120R Precalculus Fall 2011, Spring 2012, Summer 2012

Math 122B Calculus I Fall 2012

Math 129 Calculus II Spring 2013, Fall 2013, Spring 2014, Spring 2015

Math 196N Calculus II Problem Solving Workshop Fall 2013

Math 196V Calculus III Problem Solving Workshop Spring 2014

Math 263 Introduction to Statistics and Biostatistics Fall 2015, Spring 2016

As Lecturer at U. of Arizona School of Information:

ISTA 116 Statistical Foundations for the Information Age Fall 2017, Spring 2018 (in person and online)

Service

2014–2016 U. of Arizona Mathematics Graduate Student Colloquium Organizer

2013, 2015 U. of Arizona Mathematics Integration Workshop Graduate Assistant for new graduate students

2014 U. of Arizona Mathematics Department
Summer qualifying exam sessions
Senior Graduate Instructor,
Geometry/Topology

Other Skills

Software Python (NumPy/SciPy), Julia, C, C++, R, MATLAB, \LaTeX

Languages English (native), Esperanto (intermediate), Japanese (basic)