Dylan Murphy

Curriculum Vitae

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→ mpdylan.github.io

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Person	al	Intorr	nation

Full name Dylan Joseph Murphy

Born October 17, 1987 (Arizona, USA)

Citizenship USA

Education

2006–2010 S.B., Mathematics, Physics, University of Chicago, Chicago, Illinois.

2010-present Ph.D. Candidate, Mathematics, University of Arizona, Tucson, Arizona.

Research Interests

- \circ Discrete and continuous integrable systems
- o Orthogonal polynomials on the real line and unit circle
- o Asymptotic analysis of Riemann-Hilbert problems

Seminar Talks

	Seminar Talks	
Sep. 2, 2014	Tridiagonal matrix models and stochastic operators	$UA\ Mathematics\ Analysis,$
		Dynamics, and Applications Seminar
Apr. 22, 2015	Random orthogonal polynomials on the line	$UA\ Mathematics\ Mathematical$
	and the circle	Physics and Probability Seminar
Nov. 10, 2015	Difference equations and scattering problems	$UA\ Mathematics\ Analysis,$
	for orthogonal polynomial recurrence coefficients	Dynamics, and Applications Seminar
Apr. 27, 2016	Darboux transformations: from continous to discrete	$UA\ Mathematics\ Mathematical$
		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)

Fellowships and Awards

Fall 2014 U. of Arizona Mathematics Department VIGRE Fellowship

2016 U. of Arizona College of Science Galileo Circle Scholar

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As	Graduate	Teaching	Assistant	/Associate	at U.	of Arizona:
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Math 112	College Algebra	Spring 2011, Summer 2015 (online)
$Math\ 120R$	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

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	$Senior\ Graduate\ Instructor,$
	Summer qualifying exam sessions	Geometry/Topology

Other Skills

Software Python (NumPy/SciPy), Julia, C, C++, R, MATLAB, \LaTeX Languages English (native), Esperanto (intermediate), Japanese (basic)