Dylan Murphy

Curriculum Vitae

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Person	al	Infor	rmation

Full name Dylan Joseph Murphy

Citizenship USA

Education

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

2019 **Ph.D., Mathematics**, *University of Arizona*, Tucson, Arizona.

Dissertation: Additions for Jacobi operators and the Toda hierarchy of lattice equations

Employment

2022–Present $\,$ Analyst, Baseball Research & Development, Tampa Bay Rays, St. Petersburg, FL.

Designing and implementing Bayesian models for player performance forecasting.

2017–2021 Lecturer, University of Arizona School of Information, Tucson, AZ.

Teaching courses primarily in Bayesian statistics, information theory, and computation in the Python programming language.

Invited Presentations

Oct. 9, 2016 Geometry of discrete Schrödinger operators

AMS Western Sectional Meeting Special Session on Integrable Systems and Soliton Equations

Mar. 30, 2017 Algebraic geometry of scattering theory

for orthogonal polynomials

10th IMACS Conference Special Session on Painlevé Equations, Integrable Systems, and Random Matrices

Jan. 17, 2020 Additions and the Toda hierarchy

2020 Joint Mathematics Meetings Special Session on Random Combinatorial Structures, Complex Analysis, and Integrable Systems

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	UA	Mathematics:
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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		
	As Lecturer at UA School of Information:			
ISTA 116	Statistical Foundations for the Information Age	Fall 2017 – Spring 2020		
ISTA 130	Computational Thinking and Doing	$Fall\ 2018-Fall\ 2019$		
ISTA 311	Foundations of Information and Inference	$Fall\ 2018-Spring\ 2021$		
ISTA 331	Principles and Practice of Data Science	$Spring\ 2020-Spring\ 2021$		
ISTA 410/	Bayesian Modeling and Inference	Fall 2020 - Spring 2021		
INFO 510				
	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