## Evrydiki Xenia Nestoridi

Contact Information	Department of Mathematics Fine Hall, Washington Road Princeton NJ 08544-1000 USA Email Address: exn@princeton.edu		
Research Interests	Random Walks on Groups, Combinatorics, Representation Theory, Probability		
Current and Past Employment	Stony Brook University, Department of Mathematics, Stony Brook NY, USAAssociate Professor of Mathematicssince September 2022Princeton University, Department of Mathematics, Princeton, NJ, USAAssistant Professor of Mathematicssince September 2019Cambridge University, Department of Mathematics, Cambridge, UKResearch AssociateOctober 2018-September 2019Princeton University, Department of Mathematics, Princeton, NJ, USAInstructor of MathematicsSeptember 2019		
Education	<ul> <li>Stanford University, Stanford, CA, USA</li> <li>Ph.D., Mathematics, <i>Completed:</i> June 2016</li> <li>Advisor: Persi Diaconis</li> <li><i>Thesis Title:</i> Rates of convergence of Markov chains to stationarity: strong stationary times, coupling, Gelfand pairs and comparison theory</li> <li>National and Kapodistrian University of Athens, Athens, Greece</li> <li>B.S., Mathematics, average 9.83/10, June 2011</li> </ul>		
Awards	Research Member, fall 2021 NSF research grant DMS-2052659, 2021-2024 Princeton Departmental Teaching Award 2018 Centennial Teaching Award 2014-2015 The Colleen and Robert D. Haas Graduate Fellowship	MSRI \$224,195 Princeton University Stanford University Stanford University	
Accepted Articles	Bounded cutoff window for the non-backtracking random Graphs in collaboration with Peter Sarnak, under revision at Combinat	walk on Ramanujan orica (arxiv:2103.15176)	
	Mixing times for the one-sided k-transposition shuffles	(arxiv:2112.05085)	
	in collaboration with Kenny Peng, under revision at Annals of Applied Probability		
	The random walk on upper triangular matrices over $\mathbb{Z}/m\mathbb{Z}$ in collaboration with Allan Sly, under revision at Probability Theory and Related Fields (arxiv:2012.08731)		
	Mixing times for the simple exclusion process with open boundaries. in collaboration with Nina Gantert and Dominik Schmid, under revision at Annals of Applied Probability (arXiv:2003.03781)		
	Limit Profiles for Reversible Markov Chains in collaboration with Sam Olesker-Taylor, Probability Theor accepted (arXiv:2005.13437)	y and Related Fields,	

	Generalized Harmonic Fun Universality and Frequent in collaboration with N. Bie Journal of Mathematical An	ctions on Trees: Universality chler and V. Nestoridis, nalysis and Applications, accepted	(arXiv:2010.02149)
	<b>On the spectrum of random</b> in collaboration with Oanh (arXiv:1912.06771)	n walks on complete finite <i>d</i> -a Nguyen, Electronic J	<b>ry trees.</b> ournal of Probability
	Cutoff for the Bernoulli-La in collaboration with Alexan	place urn model with o(n) swa adros Eskenazis, Ann. de l'Institut I	aps. Henri Poincaré (2020)
	On the mixing time of the tables over $\mathbb{Z}/q\mathbb{Z}$ .(arxiv:1808. in collaboration with Oanh	<b>Diaconis-Gangolli random wa</b> 06157) Nguyen, Annales de l'Institut H	<b>lk on contingency</b> Ienri Poincaré (2019)
	Cutoff for cyclic adjacent t in collaboration with Danny	ranspositions.(arXiv:1805.10508) 7 Nam, Annals of Applie	ed Probability (2019)
	<b>Cutoff for random to rando</b> in collaboration with M. Be	om card shuffle.(arXiv:1703.0621) ernstein, Annals of Pr	0) obability (Dec 2018).
	Super-character theory and comparison arguments for a random walk on the upper triangular matrices. (arXiv:1609.01238 ) Journal of Algebra (November 2018).		
	Optimal strong stationary times for random walks on the chambers of a hyperplane arrangement.		
	Probability Theory and Related Fields (September 2018). <b>Shuffling big decks of cards and the Bernoulli-Laplace Urn model.</b> (arXiv:1606.01437)		
	Journal of Theoretical Prob A non local Markov Chain	in collabor ability (February 2018). <b>on the hypercube.</b> (arxiv:1507. Advances in Applied Probabil	ation with G. White, 05690) ity (December 2017).
Preprints	The Limit profile of star tr	anspositions	(arXiv:2111.03622)
	Cutoff on trees is rare in collaboration with Nina (	Gantert and Dominik Schmid,	(arXiv:2012.11484)
Graduate Advising	Dominik Schmid	Technical University of Munich, g	graduated June 2021.
	SangHak Jeon	Prir	nceton University, G3
Undergraduate Advising	Caoimhe Boyle senior thesis advising	Princeton Universit	ty, currently a senior.

	Riley Chabot senior thesis advising	Princeton University	, graduated June 2020.	
	Jackson Blitz senior thesis advising	Princeton University, graduated June 2021.		
	Anna Luybarskaja junior paper advising	Princeton Univer	sity, currently a senior.	
	Kenny Peng junior paper advising Princeto		ceton University, currently a senior.	
	Ahmed Farah junior paper advising	Princeton Univer	sity, currently a senior.	
	Rohit Narayanan junior paper advising	Princeton Univer	sity, currently a senior.	
Seminar Organization	What's happening in Fine Hall, Prin	ceton University,	since Fall 2020	
	Topics in Probability, Princeton Univ co-organized with Duncan Dauvergne a	<b>versity,</b> and Oanh Nguyen.	since Fall 2019	
	Princeton Math Colloquium, co-organized with Gabriele Di Cerbo at	nd Paul Yang.	Fall 2017-Spring 2018	
	Topics in Probability, Princeton Univ co-organized with Oanh Nguyen.	versity,	Fall 2017-Spring 2018	
Refereeing	Advances in Mathematics American Mathematical Monthly Annales de l'Institut Henri Poincaré Annals of Probability Annals of Applied Probability Brazilian Journal of Probability and Electronic Communications in Proba Electronic Journal of Probability IEEE Transactions on Information T Journal of Theoretical Probability Random Structures and Algorithms	Statistics bility heory		
CONFERENCE AND	SEPC, Duke University		June 2022	
~2mmmin IABRU	CMU probability seminar		March 2022	
	5th Colloquium on IPS		January 2022	
	CUNY probability seminar		December 2021	

MIT Colloquium	October 2021
Stony Brook University: Colloquium	October 2021
University of Pennsylvania: Colloquium	October 2021
University of Michigan Ann-Arbor: Colloquium	September 2021
MSRI Connections Workshop: Universality and Integral Matrix Theory and Interacting Particle Systems	bility in Random September 2021
UC Davis: Mathematical Physics and Probability Seminar Bounded cutoff window for the non-backtracking random walk or May 2021	r 1 Ramanujan Graphs
<b>Conference on New Developments in Probability</b> Bounded cutoff window for the non-backtracking random walk or May 2021	n Ramanujan Graphs
WIM: UCD Limit Profiles for Reversible Markov chains	May 2021
<b>Princeton University: Probability Seminar</b> Mixing time of the upper triangular matrix walk over Z/mZ.	November 2020.
<b>UBC: Probability Seminar</b> Mixing time of the upper triangular matrix walk over Z/mZ.	September 2020.
<b>BIRS, Banff: Permutations and Probability</b> The interchange and exclusion process with open boundaries	September 2020.
Stanford University: Talking Across Fields A Conference	in Honor of Persi
Mixing time of the upper triangular matrix walk over Z/mZ.	January 2020.
Technical University of Munich Mixing time of the upper triangular matrix walk over Z/mZ.	June 2019.
Paul Sebatie University Mixing time of the upper triangular matrix walk over Z/mZ.	June 2019.
York: Pine Meeting" Mixing time of the upper triangular matrix walk over Z/mZ.	May 2019.
York: LMS "Applied Algebra and Geometry" On the mixing time of the Diaconis-Gangolli random walk on over $\mathbb{Z}/q\mathbb{Z}$ .	contingency tables January 2019.
<b>Duke University: Math Colloquium</b> Mixing times and the cutoff phenomenon.	January 2019.
<b>Drexel University: Math Colloquium</b> Mixing times and the cutoff phenomenon.	January 2019.

Stanford University: Probability Seminar Mixing time of the upper triangular matrix walk over Z/mZ.	January 2019.
<b>Stanford University: Math Colloquium</b> Mixing times and the cutoff phenomenon.	January 2019.
<b>Purdue University: Math Colloquium</b> Mixing times and the cutoff phenomenon.	December 2018.
Greece: FCGM-2018 On the mixing time of the Diaconis-Gangolli random walk on cover $\mathbb{Z}/q\mathbb{Z}$ .	ontingency tables June 2018
Algorithms and Randomness Workshop, Georgia Tech Hyperplane arrangements and Stopping times.	May 2018
<b>Stony Brook University: Analysis seminar</b> Studying cutoff for card shuffling.	April 2018
Athens probability day Studying cutoff for card shuffling.	March 2018
<b>NYU: Probability Seminar</b> Cutoff for the random to random shuffle.	February 2018
<b>Columbia University: Statistics seminar</b> Studying cutoff for card shuffling.	February 2018
<b>USC: Colloquium Seminar</b> Studying cutoff for card shuffling.	January 2018
<b>Rutgers University: Probability Seminar</b> Cutoff for the random to random shuffle.	November 2017
<b>Columbia University: Probability Seminar</b> Cutoff for the random to random shuffle.	October 2017
<b>UPenn: Probability Seminar</b> Cutoff for the random to random shuffle.	September 2017
<b>LMS-EPSRC Durham Symposium</b> Hyperplane arrangements and Stopping times.	July 2017
<b>Princeton University: IDeaS</b> A random walk on the upper triangular matrices.	April 2017
<b>Brown University</b> Hyperplane arrangements and Stopping times.	April 2017
Rutgers University: Experimental Mathematics Seminar Shuffling large decks of cards and the Bernoulli-Laplace Urn mod	el. April 2017

## Yale University: Analysis Seminar

	Hyperplane arrangements and Stopping times.	February 2017
	University of Florida: Discrete Math Seminar Hyperplane arrangements and Stopping times.	January 2017
	<b>Princeton University: Special Lecture</b> A random walk on the upper triangular matrices.	December 2016
	<b>Cornell University: Probability Seminar</b> Hyperplane arrangements and Stopping times.	November 2016
	Princeton University: Ergodic Theory and Statistical Mecha Shuffling large decks of cards and the Bernoulli-Laplace Urn mode	<b>nics</b> l. October 2016
	University of Tennessee, Knoxville: Colloquium seminar Hyperplane arrangements and Stopping times.	April 2016
	UC Berkeley: Combinatorics seminar Hyperplane arrangements and Stopping times.	January 2016
	<b>Stanford University: Probability seminar</b> Hyperplane arrangements and Stopping times.	November 2015
	<b>Princeton University: Probability seminar</b> Hyperplane arrangements and Stopping times.	November 2015
	Cambridge University: Probability seminar Hyperplane arrangements and Stopping times.	October 2015
	National and Kapodistrian University of Athens, Athens, Gree Shuffling big decks of cards and the Bernoulli-Laplace Urn model.	ece September 2014
	<b>Institute for Advanced Study</b> Shuffling big decks of cards and the Bernoulli-Laplace Urn model.	May 2014
Offered Summer School Courses	<b>Open Online Probability School</b> Mixing time bounds, cutoff and limit profiles for Markov chains	August 2021
	Calouste Gulbenkian Foundation, Lisbon Introducing Probability to undergraduate students	September 2019
Senior Thesis Advising	Jackson Blitz Princeton University	2020-2021
	Riley Chabot Princeton University	2019-2020
Mentoring	Mentor	Fall 2015

	EDGE Doctoral Fellowship Program Stanford University	
	Reaserch Mentor Stanford Undergraduate Research Institute in Mathematics Department of Mathematics, Stanford University	Summer 2014
	Organizer of the Teaching Mentoring Program Department of Mathematics, Stanford University	2014-2015
	Teaching Mentor Department of Mathematics, Stanford University	Spring 2014
Teaching Experience	Head Instructor Math 103 - Calculus I Department of Mathematics, Princeton University	Fall 2020
	Supervisions Markov Chains Department of Mathematics, Cambridge University	Fall 2018
	Head Instructor Math 215 - Real Analysis Department of Mathematics, Princeton University	Spring 2018
	Instructor Math 202 - Linear Algebra Department of Mathematics, Princeton University	Fall 2017
	Instructor Math 104 - Calculus II Department of Mathematics, Princeton University	Spring 2017
	Instructor Math 103 - Calculus I Department of Mathematics, Princeton University	Fall 2016
	Math 19 - Calculus Department of Mathematics, Stanford University	Summer 2014

LANGUAGES Greek (maternal), English (fluent), French (very good)