CURRICULUM VITAE OANH NGUYEN

EDUCATION	2012-2017 2011-2012	Ph.D. in Mathematics, Yale University. Advisor: Professor Van Vu M.S. in Applied Mathematics, Tours University,		
	2007-2011	France. Advisor: Professor Marc Peigné B.S. in Mathematics and Computer Science, University of Science, Vietnam. Advisor: Professor Durong Minh Đức		
EMPLOYMENT	2021-	Assistant professor, Division of Applied Mathematics, Brown University Assistant professor, Department of Mathematics, University of Illinois at Urbana-Champaign Instructor, Princeton University. Mentor: Professor Allan Sly		
	2020-2021			
	2017-2020			
HONORS AND	2021	AIM SQuaRE (co-PI)		
AWARDS	2020-2023	NSF research grant DMS-2125031 (formerly DMS-1954174)		
	2019-2020	AMS Simons Travel Grant		
SERVICES	2021	Co-organize AAMS special session for JMM 2022		
	2017-2020	Co-organize Workshop on Random functions Co-organize Topics in Probability Seminar (Princeton)		
PUBLICATION S	real roots	 Random orthonormal polynomials: universality and expected number of real roots (with Yen Do and Van Vu), <i>arXiv preprint arXiv:</i> 2012.10850, 2020. 		
	2. Random trigonometric polynomials: universality and non-universality of the variance for the number of real roots (with Yen Do and Hoi Nguyen), to appear in <i>Annales de l'Institut Henri Poincaré - Probabilités et Statistiques</i> .			
	3. On the spectrum of random walks on complete finite d-ary trees (<i>with</i>			
	 Evita Nestoridi), <i>Electronic Journal of Probability</i> 43, 2021, 1–17. 4. Critical value asymptotics for the contact process on random graphs (with Danny Nam and Allan Sly), to appear in <i>the Transactions of the</i> <i>American Mathematical Society</i>. 			
	 Random polynomials: central limit theorems for the real roots (with Van Vu), to appear in <i>Duke Mathematical Journal</i>. 			

6.	Survival and extinction of epidemics on random graphs with general
	degrees (with Shankar Bhamidi, Danny Nam and Allan Sly), The
	Annals of Probability 49(1), 2021, 244–286.

- On the mixing time of the Diaconis-Gangolli random walk on contingency tables over Z/qZ (with Evita Nestoridi), *Annales de l'Institut Henri Poincaré - Probabilités et Statistiques* 56(2), 2020, 983–1001.
- 8. Roots of random functions: a framework for local universality (with Van Vu), to appear in *the American Journal of Mathematics*.
- Random eigenfunctions on flat tori: universality for the number of intersections (with Mei-Chu Chang, Hoi Nguyen, and Van Vu), *International Mathematics Research Notices* 2020(24), 2020, 9933– 9973.
- Roots of random polynomials with coefficients of polynomial growth (with Yen Do and Van Vu), *The Annals of Probability* 46(05), 2018, 2407–2494.
- Embedding large graphs into a random graph (with Asaf Ferber and Kyle Luh), *Bulletin of the London Mathematical Society* 49(05), 2017, 784– 797.
- Packing loose Hamilton cycles (with Asaf Ferber, Kyle Luh, and Daniel Montealegre), *Combinatorics, Probability and Computing* 26(06), 2017, 839-849.
- 13. Anti-concentration for polynomials of Rademacher random variables and applications in complexity theory (with Raghu Meka and Van Vu), *Theory of Computing* 12(11), 2016, 1-17.
- On the number of real roots of random polynomials (with Hoi Nguyen and Van Vu), *Communications in Contemporary Mathematics* 18(04), 2016, 1550052.

INVITED	2021	- Conference on random nodal domains, Rennes (France)
TALKS		- Vietnam Summer Meeting (Vietnam)
		- University of Birmingham (UK), Data Science and
		Computational Statistics seminar
		- SAMSI program on Combinatorial Probability
	2020	- Probability and Analysis Webinar
		- Brown, Colloquium
		- AMS Spring Southeastern Sectional Meeting
		- Princeton, Noetherian Ring
		- Notre Dame, Colloquium
		- UC Davis, Mathematical Physics & Probability seminar
	2019	- UIUC, Colloquium
		- Duke, Probability Seminar
		- Penn State University, Probability Seminar
		- CUNY, Probability Seminar

		 University of Chicago, Probability Seminar Columbia-Princeton Probability day University of Wisconsin-Madison, Probability seminar
	2018	 Women and Mathematics program, Princeton Day Ohio State University, Combinatorics seminar Simons Collaboration on Algorithms and Geometry monthly meeting, New York Rutgers University, Discrete Mathematics Seminar
	2017	 Princeton, Probability seminar Harvard University, Random Matrix Theory and Probability Seminar Rutgers University, Discrete Mathematics Seminar
	2016	 University of California, Los Angeles, Analysis and PDE seminar University of Washington, Probability seminar
	2015	 Ohio State University, Combinatorics seminar Simons conference on random graph, University of Texas at Austin (poster) University of Texas at Austin, Random Structures seminar
	2015	 University of Virginia, Harmonic Analysis and PDEs seminar Random Structures and Algorithms Conference, Carnegie Mellon University
MENTORING	2018	Advise senior thesis for Heather Newman (Princeton class of 2019), Princeton
	2017	Advise senior thesis for Soonho Steven Kwon (Princeton class of 2018), Princeton
	2016	Mentor Chi Tong (Yale class of 2018) in the Directed Reading Program in Mathematics, Yale
	2015	Mentor Dylan Greaves (Yale class of 2015) in the Directed Reading Program, Yale.