

Ha Khanh Nguyen

Address

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Research Interests

Statistical methods and models for high-dimensional network data
Statistical bootstrapping and simulation-based statistics
Data science education

Education

The Ohio State University	8/2017 — 5/2019
Master of Applied Statistics, GPA: 3.7/4.0	
San Jose State University	8/2015 — 5/2017
B.S. Computer Science with Mathematics Minor, GPA: 3.9/4.0	

Appointments

Instructor – Department of Statistics, University of Illinois Urbana-Champaign, Champaign, IL	6/2020 – Present
Visiting Instructor – Department of Statistics, University of Illinois Urbana-Champaign, Champaign, IL	1/2020 – 5/2020
Data Science Support Specialist – Department of Statistics, University of Illinois Urbana-Champaign, Champaign, IL	10/2019 – 6/2020

Work and Research Experience

Graduate Teaching Assistant— Department of Statistics, The Ohio State University, Columbus, OH	8/2018 — 5/2019
Graduate Research Assistant – Department of Statistics, The Ohio State University, Columbus, OH	1/2018 — 8/2018
Student Research Assistant — Department of Mathematics & Statistics, San Jose State University, San Jose, CA	10/2016 — 8/2017
Student Assistant — Graduate & Undergraduate Programs, San Jose State University, San Jose, CA	9/2015 — 5/2017

Teaching

University of Illinois Urbana-Champaign

- STAT 400 - Statistics and Probability I [[Spring 2020](#)]
- STAT 385 - Statistics Programming Methods [[Spring 2020](#)]
- STAT 107 - Data Science Discovery [[Fall 2020](#), [Spring 2021](#)]
- STAT 430 - Python in Data Science Programming [[Fall 2020](#), [Spring 2021](#)]

Awards & Honors

May 2020	List of Teachers Ranked as Excellence for STAT 385 and STAT 400, University of Illinois Urbana-Champaign
August 2017	Distinguished University Fellowship, The Ohio State University – Graduate School
August 2017	Lubrizol Start-up Fellowship, The Ohio State University – Department of Statistics
August 2017	Graduate Associateship, The Ohio State University – Department of Statistics
May 2017	Outstanding Graduating Senior Award, San Jose State University – Department of Computer Science
May 2017	Summa Cum Laude Latin Honor, San Jose State University
August 2016	Archimedes Scholarship Award, San Jose State University
May 2015	Frieda T. & Frank S. Weiding Memorial Scholarship, Santa Monica College
January 2015	First Place Educational Award, Martin Luther King, Jr. Westside Coalition

Talks and Presentations

- Department of Statistics Graduate Student Poster Session: Sep 20, 2018 The Ohio State University, Columbus, OH. ([Poster](#))
- Observational Data Reading Group (Network Analysis) – Department of Statistics: Sep 2018 The Ohio State University, Columbus, OH. ([Slides](#))
- [SIAM Annual Meeting 2018 \(Algebraic Statistics: Graphical and Network Models Session\)](#): Jul 9 – 13, 2018 Portland, OR. ([Audio/Slides](#))
- [North California Undergraduate Mathematics Conference 2017](#): Mar 25, 2017 Sonoma State University, Sonoma, CA.
- Poster Session at the Mathematical Association of America (MAA) Conference – The Golden Section: Mar 4, 2017 Santa Clara University, Santa Clara, CA.

Activities

- [MBI Workshop: Modeling & Analysis of Dynamic Social Networks](#): Nov 7 – 9, 2018 MBI, The Ohio State University, Columbus, OH.
- [International Congress on Mathematical Software 2018](#): Jul 24 – 27, 2018 University of Notre Dame, South Bend, IN.
- [SIAM Workshop on Network Science \(NS18\)](#): July 12 – 13 Portland, OR.

- [SIAM Annual Meeting 2018](#): Jul 9 – 13 Portland, OR.

Papers

[2] A Hypothesis Test for Network Comparison, with Jinzhao Chen, [Kartik Lovekar](#), and [Vishesh Karwa](#), 2020.

(In preparation) Given any metric that measures the distance between two networks, we propose a permutation-based hypothesis test for comparing networks with the ability to specify a type I error rate.

[1] The Geometry of Exponential Random Graph Models, with Rodolfo Garcia, [Elizabeth Gross](#), and [Christopher O'Neil](#), 2020.

(In preparation) We study a class of Exponential Random Graph Models under the light of algebraic geometry.