

# Ha Khanh Nguyen

## Address

Department of Statistics  
University of Illinois Urbana-Champaign  
725 South Wright Street, Rm 101  
Champaign, IL 61820

## Contact Info

Email: [hknguyen@illinois.edu](mailto:hknguyen@illinois.edu)  
[nkha149@gmail.com](mailto:nkha149@gmail.com)  
Website: [hknguyen.org](http://hknguyen.org)

## Research Interests

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

## Education

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

## Appointments

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

## Work and Research Experience

<b>Graduate Teaching Assistant</b> — Department of Statistics, The Ohio State University, Columbus, OH	8/2018 — 5/2019
<b>Graduate Research Assistant</b> – Department of Statistics, The Ohio State University, Columbus, OH	1/2018 — 8/2018
<b>Student Research Assistant</b> — Department of Mathematics & Statistics, San Jose State University, San Jose, CA	10/2016 — 8/2017
<b>Student Assistant</b> — 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](#)]

## Awards

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.