

Ann Kathryn Johnston

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I am interested in leveraging my data & analysis skills to understand and address issues of diversity, equity, inclusion, and belonging, especially in relation to how disability/access issues fit into this space.

Education

PENN STATE UNIVERSITY, University Park, PA

Ph.D. in Statistics (Expected) 2024
M.S. in Statistics (GPA: 3.49) 2020
PhD Advisor: Dr. Aleksandra Slavković

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, CA

M.A. in Mathematics (GPA: 3.51) 2014

HARVEY MUDD COLLEGE, Claremont, CA

B.S. in Mathematics (GPA: 3.56; Diploma with Distinction) 2011

Awards & Honors

- ▶ **Harkness Award for Excellence in Statistics Instruction**, Penn State University 2017
- ▶ **Jack and Eleanor Pettit Scholarship in Science**, Penn State University 2016–2017
- ▶ **Verne M. Willaman Distinguished Graduate Fellowship in Science**, Penn State University 2015–2016
- ▶ **The Chavin Prize: Outstanding Paper in the Mathematical Sciences**, Harvey Mudd College 2011
- ▶ **MAA Outstanding Poster**, Joint Math Meetings Undergraduate Student Poster Session 2011
- ▶ **Robert C. Byrd Honors Scholarship**, U.S. Department of Education 2007–2011

Professional Experience

RESEARCH ASSISTANT & CONSULTANT, *Statistical Consulting Center*, Penn State University 2017–2019

- ▶ Conducted consultations with faculty & graduate students on research-related statistical problems
- ▶ Jointly supervised four cohorts of MAS/PhD students in their statistical consulting practicum
- ▶ *Long term projects*: Counseling & Special Education, Educational Psychology & Sociology, and Mathematics

GRADUATE INSTRUCTOR, *Department of Statistics*, Penn State University 2017

- ▶ *Courses taught*: Elementary Statistics (Stat 200, Summer 2017)

ADJUNCT ASSISTANT PROFESSOR, *Department of Mathematics*, Harvey Mudd College 2013

- ▶ *Courses taught*: Introduction to Probability & Statistics (Math 35, Fall 2013)

Selected Publications

Register based human population size estimation: A geometric perspective toward assessing sensitivity to unverifiable independence assumptions. **Ann Johnston**. Master's Thesis, Penn State University, 2020.

Impact of disability services on academic achievement among college students with disabilities. *Yung-Chen Chiu, Hsiao-Ying Chang, Ann Johnston, Mauricio Nascimento, James Herbert & Xiaoyue Niu*. Journal of Postsecondary Education and Disability Vol 32, No. 3 (pp. 227-245), 2019.

Service rate region of content access from erasure coded storage. *Sarah Anderson, Ann Johnston, Gauri Joshi, Gretchen Matthews, Carolyn Mayer & Emina Soljanin*. IEEE Information Theory Workshop, (pp. 1-5), 2018.

Service & Outreach

- ▶ **Organizer & Volunteer Coordinator**, *Penn State DataFest* 2018–2019
- ▶ **Graduate Student Representative**, *Space Committee, Penn State Statistics Department* 2017–2018
- ▶ **Mentor**, *Harvey Mudd College Mentoring Program* 2013–2016
- ▶ **Secretary of the Executive Board**, *Math Grad Student Association, Univ. of Southern California* 2012–2014

Skills

PROGRAMMING & LANGUAGES | R, Python, Mathematica, MATLAB, Scheme, Prolog, \LaTeX
English (native) & French (proficient)