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)