# 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** ..................................... 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) |