

Portia X. Anderson

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Education

- 2018–present **Cornell University**, Ithaca, NY
Advisor: Allen Knutson
MS in Mathematics – received June 2022
PhD in Mathematics – in progress
- 2016–2017 **Smith College**, Northampton, MA
Center for Women in Mathematics Post-Baccalaureate Program
- 2012–2016 **Johns Hopkins University**, Baltimore, MD
BS in Biomedical Engineering, Minors in Mathematics and Robotics

Papers

Edge-swapping symmetries of Knutson-Tao puzzles, *in preparation*
Generalized Splines on Graphs and Polynomial Splines on Cycles, [arXiv](#), with Julianna Tymoczko and Jacob Matherne

Invited Talks

- Dec. 2022 **“Edge-swapping symmetries of Knutson-Tao puzzles with hexagonal and parallelogram-shaped boundary”**, *Schubert Seminar*
- Dec. 2022 **“Schubert calculus and edge-swapping symmetries of Knutson-Tao puzzles”**, *Combinatorics seminar*, University of Minnesota
- Sept. 2022 **“Schubert Calculus with Puzzles: a dialogue between geometry and combinatorics”**, *Route 81 Conference*, Queen’s University
- Aug. 2017 **“Splines on Arbitrary Graphs with Two Distinct Degree-2 Polynomial Edge Labels”**, *The 5th Northeast Mathematics Undergraduate Research Mini-Symposium*, University of Connecticut
- July 2017 **“Splines on Graphs with Two Distinct Degree-2 Polynomial Edge Labels”**, *Summer Combo*, University of Vermont
- April 2017 **“Results on Splines”**, *Hudson River Undergraduate Mathematics Conference*, Westfield State University
- Jan. 2017 **“An Introduction to Splines”**, *Joint Mathematics Meetings*, Atlanta, GA

———— Service, Mentorship, & Outreach

2022–present **President**, *The Association for Women in Mathematics, Cornell chapter*

2019–2020 **ZigZag Mentoring Program Coordinator**, *The Association for Women in Mathematics, Cornell chapter*

2019–2020 **Volunteer**, *Girls' Math Circle, Cornell University*