

Portia X. Anderson

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Education

- 2018–present **Cornell University**, Ithaca, NY.
PhD Student in Mathematics
Advisor: Allen Knutson
- 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

Generalized Splines on Graphs and Polynomial Splines on Cycles, *in preparation*, with Julianna Tymoczko and Jacob Matherne.

Awards

- 2018 **Deans Excellence Fellowship**, *Cornell University*.
Graduate School fellowship in support of diversity
- 2018-2019 **Cornell Graduate Fellowship**, *Cornell University*.
- 2017 **Summer Undergraduate Research Fellowship (SURF)**, *Smith College*.
- 2013 & 2014 **William Brown Baxley Scholarship**, *Johns Hopkins University*.

Research Experience

- 2016–present **Splines Research**, *Smith College*.
Joint work with Julianna Tymoczko to study minimum generating sets for generalized algebraic splines on planar graphs
- 2015–2016 **Neuroengineering and Biomedical Instrumentation Lab**, *Johns Hopkins University*.
Undergraduate researcher supervised by Nitish Thakor
- Summer 2015 **Visual Attention and Cognition Lab**, *Shanghai Jiao Tong University*, Shanghai, China.
Undergraduate researcher supervised by Yao Chen

Summer 2014 **Vascularized Composite Allotransplantation Laboratory**, *Johns Hopkins University School of Medicine*, Baltimore, MD.
Research intern supervised by Gerald Brandacher

Research Talks

- 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"**, Smith College.
- April 2017 **"Results on Splines"**, *Hudson River Undergraduate Mathematics Conference*, Westfield State University.
- Jan. 2017 **"An Introduction to Splines"**, *Joint Mathematics Meetings*, Atlanta, GA.
- Dec. 2016 **"Splines on Cycles and Graphs"**, Smith College.

Teaching Experience

- 2019–present **Teaching Assistant**, *Cornell University*, Ithaca, NY.
- 2017–2018 **Calculus Tutor**, *Suffield Academy*, Suffield, CT.
- 2017–2018 **Math Tutor**, *Freelance*, Northampton, MA.
- Spring 2017 **Math Teaching Assistant**, *Smith College*, Northampton, MA.
- Fall 2016 **Grader**, *Smith College*, Northampton, MA.

Service, Mentorship, & Outreach

- 2019–present **Mentoring Program Coordinator**, *The Association for Women in Mathematics*, Cornell University.
Designing and implementing a mentoring program to empower women and members of other underrepresented groups in mathematics.
- 2019–present **Officer**, *The Association for Women in Mathematics*, Cornell University.
- 2019–present **Volunteer**, *Girls' Math Circle*, Cornell University.
- 2019–present **Mentor**, Cornell University mentoring program for incoming math PhD students.