Brown University Box 1917, 151 Thayer Street Providence, RI 02912

#### **EDUCATION**

Brown University, Providence, RI

M.Sc in Mathematics received May 2019. Ph.D. candidate in Mathematics.

Sep 2017 - present

Smith College, Northampton, MA

B.A. magna cum laude Mathematics. Phi Beta Kappa.

GPA: 3.96

Minor: Physics Sep 2013 - May 2017

Dean's List 2013-2015, 2016-2017

Budapest Semesters in Mathematics, Budapest, Hungary

Sep 2015 - Dec 2015

GPA: 3.8

#### **PUBLICATIONS**

- 1. The  $S_n$ -equivariant rational homology of the tropical moduli spaces  $\Delta_{2,n}$ , Claudia He Yun (submitted)
- Puzzling and Apuzzling Graphs, D. Gold, J. Henle, C. Huang, T. Lyve, T. Marin, J. Osorio, M. Puligandla, B. Weick, J. Xia, H. Yun, and J. Zhang, AKCE International Journal of Graphs and Combinatorics, vol. 13, no. 1 (2016): 1-10.

#### In preparation:

3. Splines on lattices and the equivariant cohomology of homogenous affine springer fibers of weight 1, J. Tymoczko and C.H. Yun

# HONORS & AWARDS

Ann Kirsten Pokora Prize to a senior with a distinguished academic record in mathematics, Smith College, 2017

Top 500: William Lowell Putnam Mathematical Competition, 2017

Suzan Rose Benedict Prize to a Sophomore for Excellence in Mathematics, Smith College, 2015

Summer Research Fellowship, Smith College, 2014-2016 Wallfisch Performance Prize (Piano), Smith College, 2016 Susan Rose Internships in Music, Smith College, 2015

# **TALKS**

[May 2020] Rational homology of the tropical moduli spaces  $\Delta_{2,n}$  as  $S_n$ -representations, Marvelous Algebraic Geometry Unraveled by Students (MAGUS), online

[Mar 2020]  $S_n$ -equivariant homology of the tropical moduli space  $\Delta_{2,n}$ , Combinatorics Seminar, Brown University

[Feb 2020]  $S_n$ -equivariant homology of the tropical moduli space  $\Delta_{2,n}$ , Graduate Student Seminar, Brown University

[Oct 2019] What is representation stability?, Graduate Student Seminar, Brown University

[Apr 2018] Tree representation of  $S_{n+1}$ , Graduate Student Seminar, Brown University [Oct 2018] Introduction to Schubert Calculus, Graduate Student Seminar, Brown University

[Apr 2017] Poster: Splines on Lattices, Celebrating Collaborations, Smith College

[Apr 2017] Splines on Lattices, 24th Hudson River Undergraduate Mathematics Conference (HRUMC), Westfield State University

[Jan 2017] An Introduction to Splines, the Joint Math Meetings, Atlanta, GA

[Dec 2016] Splines on Cycles and Infinite Graphs, Math Lunch Talk, Smith College

[Sep 2016] Basis of Splines on the  $A_n$  Root Lattice, Women in Mathematics in New England (WIMIN) 2016, Smith College

[Jul 2016] Basis of Splines on the An Root Lattice, Williams REU conference, Williams College

[Jul 2016] Poster: Number of Positive Root in a Subspace of the  $A_n$  lattice, Summer Combo in Vermont, St Michael's College

[Apr 2016] Generalized Splines on Cycles and Infinite Graphs, Math Lunch Talk, Smith College

[Apr 2016] Generalized splines on cycles and infinite graphs, 23nd Hudson River Undergraduate Mathematics Conference (HRUMC), St Michael's College

[Sep 2014] Puzzling and Apuzzling Graphs, Women in Mathematics in New England (WIMIN) 2014, Smith College

[Apr 2014] Puzzling and Apuzzling Graphs, 21st Hudson River Undergraduate Mathematics Conference (HRUMC), Skidmore College

[Mar 2014] Puzzling and Apuzzling Graphs, 5th Annual AEMES Research Symposium, Smith College

\* scheduled.

## TEACHING EXPERIENCE

## **Brown University**

- Teaching assistant. Math 520: Linear Algebra. Fall 2020.
- Instructor. Math 100: Calculus II. Fall 2019.
- Teaching assistant. Math 90: Calculus I. Spring 2019.
- Teaching assistant. Math 100: Calculus II. Fall 2018.

#### Smith College

- General math tutor. Pre-calculus to multivariable calculus and linear algebra.
  Fall 2016 Spring 2017.
- Instructor. One-week introduction to Java programming. January 2017.
- Computer science tutor. Data structures. Fall 2016.
- General physics tutor. Introductory physics courses. Fall 2014 Spring 2016.

#### **OUTREACH**

## Math Circle

Spring 2019 – present Providence, RI

- We organize weekly trips to a local middle school and a local high school to teach math through activities and games.
- We also organize public math circles open to everyone in the community.

## Summer Science Program

Summer 2018 Soccoro, NM

- This astrophysics program is aimed at advanced high school students.
- I worked as a TA to assist learning in math, physics, astronomy, and computer science.

#### **SKILLS**

Languages: Chinese (Native): fluent in speaking, reading, and writing

Computer Proficiency: Python, Java, SageMath, SQL, Mathematica, MatLab, SolidWorks, LATEX.

# SERVICE

Diversity/Inclusion Committee (Fall 2018 - present)

# EXTRA-CURRICULAR ACTIVITIES

I play classical piano in my free time.

I also enjoy various sports, like rock climbing, aerial circus, and figure skating.

Treasurer, Astronomy and Physics Club (Sep 2013-May 2015)

The Bearded Ladies - a recreational circus club (Sep 2014-May 2015)

Smith College Glee Club (Sep 2014 - Jan 2015)

Safe Passage - a Northampton-based domestic violence service (Jan 2014-June 2014)

Smith College Chorus (Sep 2013- May 2014)