

Anna Neufeld

Contact Information	Department of Statistics University of Washington Padelford B-222 Seattle, WA, 98195	aneufeld@uw.edu https://anna-neufeld.github.io
Education	University of Washington , Seattle, Washington. Statistics PhD Student	2018-Present
	Williams College , Williamstown, MA BA in Mathematics (Highest Honors) and Computer Science. <i>Summa Cum Laude</i> , GPA 4.04.	2014-2018
Research Experience	Research Assistant (University of Washington) <ul style="list-style-type: none">• Advisor: Daniela Witten• Selective inference for CART regression trees. Williams College Undergraduate Honors Thesis <ul style="list-style-type: none">• Advisor: Brianna Heggeseth• Longitudinal regression trees for clustering body mass index trajectories. SMALL Research Experience for Undergraduates <ul style="list-style-type: none">• Advisors: Julie Blackwood and Lauren Childs• Comparing the relative contributions of sexual transmission and vector transmission in the spread of the Zika virus.	2020-Present 2017-2018 Summer 2016
Teaching Experience	Instructor of Record University of Washington Department of Statistics <ul style="list-style-type: none">• Stat 311: Elements of Statistical Methods• ~60 students Head Teaching Assistant University of Washington Department of Statistics <ul style="list-style-type: none">• Stat 311: Elements of Statistical Methods• Developed lab assignments, maintained lab website, helped write assignments and exams, served as liaison between professor and other TAs.• ~180 students total.• Led two lab sections of 30 undergraduates each. Graduate Teaching Assistant University of Washington Department of Statistics <ul style="list-style-type: none">• Stat 311: Elements of Statistical Methods (Autumn 2018, Spring 2020)• Stat 423: Applied Regression and Analysis of Variance (Winter 2019)• CSE/Stat 416: Introduction to Machine Learning (Spring 2019).• Responsible for lab sections of around 30 undergraduates each. Also held office hours and graded assignments.	Summer 2019 Autumn 2019, Winter 2020 2018-2020

Undergraduate Teaching Assistant September 2015 - May 2018
Williams College Departments of Computer Science, Mathematics, and Statistics

- Data Structures and Advanced Programming (Fall 2015), Linear Algebra (Spring 2016, Spring 2017), Abstract Algebra (Fall 2016), Regression and Forecasting (Fall 2017, Spring 2018)
- Duties included grading homework, holding office hours, and running review sessions.

Workshop Leader January 2018
Williams College Office of Academic Resources

- Worked with a group of undergraduates and the Office of Academic Resources to pilot a new program of coding workshops
- Taught a series of workshops in R to undergraduates from a variety of departments and graduate students from the Center for Development Economics.

Peer Tutor 2016-2018
Williams College Office of Academic Resources

- Nominated by faculty to serve as a peer tutor. Held one-on-one and drop-in tutoring sessions for microeconomics, macroeconomics, calculus, linear algebra, real analysis, statistics, and computer science.
- Also worked one on one with biology research students who needed help conducting data analysis in R.

Publications Maxian, O*, **Neufeld, A.***, Talis, E. J.*, Childs, L. M., & Blackwood, J. C. (2017). Zika virus dynamics: When does sexual transmission matter?. *Epidemics*, 21, 48-55.
(* denotes equal contribution)

Software **splinetree: longitudinal trees and forests using a spline projection method**
R package. Available from github and github

Professional Experience **Cogo Labs, Cambridge, MA** June 2017-August 2017
Data Analytics Intern

- Worked with a team of engineers, designers, and analysts to build and market a website. Analyzed market data with SQL, analyzed site performance with google analytics and piwik, and assisted with backend web development in python.

Honors and Awards **University of Washington**
2020 Dorothy M. Gilford Excellence in Teaching Award *Department of Statistics*

Williams College
2018 W. Margaret Canby Athletic Scholarship Prize
(for highest standing in scholarship among senior varsity athletes)
2018 Robert M. Kozelka Prize in Statistics
2018 Sigma Xi Scientific Honor Society
2017 Phi Beta Kappa National Honor Society
2016-2018 New England Small Colleges Athletic Conference (NESCAC) All-Academic team
2016-2018 Clare Boothe Luce Fellowship
2016 Erastus C. Benedict First Prize in Mathematics
(presented to outstanding sophomore)

Mentoring

University of Washington Undergrad Directed Reading Program (DRP)

- Co-founded (in 2020) a program that pairs undergraduates with PhD student mentors for independent studies. Modeled after successful Directed Reading Programs (DRPs) in mathematics departments at several universities. More information can be found at our website.
- Served as a graduate student coordinator for 2020-2021.
- Served as a mentor for the following undergraduate projects:
 - Winter 2020, Christina Nick, Statistical Natural Language Processing
 - Spring 2020, Rachael Ren, Infectious Disease Modeling with Differential Equations. See project writeup and presentation.
 - Autumn 2020, Harper Zhu, Infectious Disease Modeling on a Network. See presentation and shiny app.

Service

- Reviewer for *Statistical Science*.
- UW Statistics Graduate Student Representative (2020-2021).
- First round review for PhD Admissions (2020, 2021)
- UW Statistics Diversity, Inclusion, Community, and Equity (DICE) Committee (2019-2020)
- Chair of the UW Statistics Fun Committee, 2019-2020
- Organizer and Founder: Statistics Education Reading Group, Autumn 2019-Winter 2020