Department of Statistics & Data Science
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Addison Hu

Education

August 2018 – present **Carnegie Mellon University**, *Pittsburgh, PA*.
- PhD, Statistics & Machine Learning (in progress)

August 2013 – May 2017 **Yale University**, *New Haven, CT*.
- BSc, Statistics; Distinction in Major; magna cum laude (GPA: 3.9)

Papers

2021 **Veeranjaneyulu Sadhanala, Yu-Xiang Wang, Addison J Hu, and Ryan J Tibshirani**, *Multivariate trend filtering for lattice data*, Submitted.

Daniel J McDonald, Jacob Bien, Alden Green, Addison J Hu, [nine more authors], *Can auxiliary indicators improve COVID-19 forecasting and hotspot prediction?*, Proceedings of the National Academy of Sciences.

Alex Reinhart, et al, *An open repository of real-time COVID-19 indicators*, Proceedings of the National Academy of Sciences.

Estee Y Cramer, et al, *Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the US*, Proceedings of the National Academy of Sciences.

2020 **Addison J Hu, Mikael Kuusela, Ann B Lee, Donata Giglio, and Kimberly M Wood**, *Spatio-temporal methods for estimating subsurface ocean thermal response to tropical cyclones*, Manuscript.

2017 **Addison J Hu and Sahand N Negahban**, *Minimax estimation of bandable precision matrices*, Advances in Neural Information Processing Systems.

Awards

Spring 2020 **NSF Graduate Research Fellowship Program**.
- I am funded through Summer 2023 by a grant, courtesy of the NSF GRFP, to study multivariate extensions of trend filtering for scattered data.

Teaching Experience

Fall 2018 – Spring 2020 **Teaching Assistant**, *Carnegie Mellon University*, Pittsburgh, PA.
- Topics covered: probability theory, inference, linear models, scientific communication & report writing.
- Lectured in lieu of instructor when necessary.
- Beginning Fall 2020, I have been relieved from teaching by an NSF GRFP grant.

January 2016 – May 2017 **Teaching Fellow**, *Yale Depts of Computer Science; Statistics*, New Haven, CT.
- Topics covered: inference, model selection, optimization, dimensionality reduction, dictionary learning, matrix factorization, etc., with applications in R, Python, and Spark.

Professional Experience

July 2017 – August 2018 **Data Scientist**, *Facebook*, Seattle, WA.
- Worked on Search Core Relevance.

Service, Professional

2019, 2020, 2021 **Reviewer**, *Neural Information Processing Systems*.
– Top reviewer: 2019, 2020.

Spring 2020 – present **Wellness Committee**, *CMU Department of Statistics*, Pittsburgh, PA.
– Organize discussions, events, and other opportunities to promote holistic student wellness within my home department.

Service, Community

September 2017 – June 2018 **Tutor**, *Youth Tutoring Program*, Seattle, WA.
– Tutoring & mentoring for Seattle-area students from low- and mixed-income housing.

August 2013 – May 2014 **Math Coach**, *MathCounts Outreach*, New Haven, CT.
– Afterschool mathematics coaching to students in the New Haven public school system.

August 2013 – May 2014 **English Tutor**, *Bridges ESL*, New Haven, CT.
– English as a second language classes for members of the New Haven immigrant community.

Technical Skills

Python, R, LaTeX, SQL, C, Git, Spark (Scala)