Paul-Hieu V. Nguyen

March 2023

CONTACT

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RESEARCH INTERESTS

Tree Ensemble Methods. Bayesian tree regression. Bayesian Statistics. Model selection. Statistical Learning. Applications in environmental science.

EDUCATION

University of Wisconsin–Madison — Madision, WI
Ph.D., Statistics — August 2022 - Present

Reed College — Portland, OR
B.A., Mathematics — May 2022
Thesis Title: "Inference for Random Forests"
Thesis Supervisor: Jonathan Wells, Ph.D.

PUBLICATIONS

Wojcik O.C., Olson S.D., **Nguyen, P-H.V.**, McConville K.S., Moisen G.G. and Frescino T.S. (2022). "GREGORY: A Modified Generalized Regression Estimator Approach to Estimating Forest Attributes in the Interior Western US." *Frontiers in Forests and Global Change*.
DOI: 10.3389/ffgc.2021.763414

TALKS

Presentation. **Nguyen, P-H.V.** "Oblique BART". Joint Statistical Meetings (2024).

Presentation. **Nguyen, P-H.V.** "Oblique Bayesian Additive Regression Trees with non-axis aligned splits". Midwest Machine Learning Symposium (2024).

Poster Presentation. **Nguyen, P-H.V.** "Oblique Bayesian Additive Regression Trees". Midwest Machine Learning Symposium (2024).

Presentation. Yee R., **Nguyen, P-H.V.** "Extensions to BART: Oblique Rules and Random Fourier Features". Institute for the Foundations of Data Science (2024).

Presentation. **Nguyen, P-H.V.** "Anonymity in the Ubuntu Dialogue Corpus." Electronic Undergraduate Statistics Research Conference (2021).

Poster Presentation. **Nguyen, P-H.V.** "Anonymity in the Ubuntu Dialogue Corpus." Reed College Summer Research Poster Session (2021).

Presentation. Wojcik O.C., Olson S.D. and **Nguyen, P-H.V.** "Improving Precision of Forestry Estimation." Electronic Undergraduate Statistics Research Conference (2020).

Presentation. Harris L., Richter M. and **Nguyen, P-H.V.** "Modeling Lyme Disease in Iowa." 10th Annual Iowa Summer Research Symposium (2019).

HONORS & AWARDS

Advanced Opportunity Fellowship, University of Wisconsin–Madison — Aug 2022

2nd, June 2020 Undergraduate Research Project Competition — Sep 2020

2020 Economics Summer Research Mintz Award, Reed College — Aug 2020

Commendation for Excellence, Reed College — Aug 2019, 2020, 2021, 2022

TEACHING

University of Wisconsin–Madison; Teaching Assistant

Stat 340: *Data Science Modeling II* — Fall 2024

Stat 240: *Data Science Modeling I* — Fall 2023, Spring 2024

Reed College; Teaching Assistant, Lab Assistant, Grader

Math 392: *Mathematical Statistics* — Spring 2022

Math 391: *Probability* — Fall 2021

Math 243: *Statistical Learning* — Fall 2020

Math 141: *Introduction to Probability and Statistics* — Fall 2019, Spring 2020, Spring 2021

EXPERIENCE

Research Assistant, University of Wisconsin – Madison — Summer 2024
Supervisor: Sameer K. Deshpande, Ph.D.

NSF REU Fellow, Pennsylvania State University — Summer 2021
Supervisor: Ting-Hao 'Kenneth' Huang, Ph.D.

Economics Summer Fellow, Reed College — Summer 2020
Supervisor: Nicholas Wilson, Ph.D.

Research Assistant, Reed College — Spring 2020
Supervisor: Kelly McConville, Ph.D.

Iowa Summer Institute in Biostatistics Fellow, University of Iowa — Summer 2019
Supervisor: Grant Brown, Ph.D.