Paul-Hieu V. Nguyen
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CONTACT

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RESEARCH INTERESTS

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

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

WORKING PAPERS

Nguyen, P-H.V., Yee. R, Deshpande, S.K.. (2024+). "Oblique Bayesian additive regression trees". arXiv:2411.08849.

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 Supervisor: Sameer K. Deshpande, Ph.D.	Summer 2024
NSF REU Fellow, Pennsylvania State University Supervisor: Ting-Hao 'Kenneth' Huang, Ph.D.	Summer 2021
Economics Summer Fellow, Reed College Supervisor: Nicholas Wilson, Ph.D.	Summer 2020
Research Assistant, Reed College Supervisor: Kelly McConville, Ph.D.	Spring 2020
Iowa Summer Institute in Biostatistics Fellow, University of Iowa Supervisor: Grant Brown, Ph.D.	Summer 2019

SKILLS

Programming: R, C++, Python, Latex
Software: Stan, Git