Trung Vu

hvu@illinois.edu • htrungvu.com • 507-581-2213 Citizenship: Vietnam

Technical skills

Programming and markdown languages

Proficient in: Python, MATLAB, R, HTML, CSS, LATEX, Mathematica

Familiar with: Ć++, Julia

Softwares and packages

Proficient in: Sage, Macaulay2, Qiskit (for quantum computing)

Familiar with: Tensor Flow, Arduino package from MATLAB, Pupil Labs (eye-

tracking devices software)

Languages

English (fluent), Vietnamese (fluent)

Education

2020 – Present University of Illinois at Urbana-Champaign – Urbana, Illinois

PhD in Mathematics

Advisors: Professor Philippe Di Francesco and Professor Rinat Kedem

2020 – 2021 University of Illinois at Urbana-Champaign – Urbana, Illinois

M.Sc in Mathematics

Advisors: Professor Philippe Di Francesco and Professor Rinat Kedem

2016 – 2020 St. Olaf College – Northfield, Minnesota

BA in Mathematics with Concentration (minor) in Neuroscience

Honors and scholarships

2023 University of Illinois at Urbana-Champaign Research Board Funding Recipient

2022-2023 Bourgin Departmental Fellowship - University of Illinois at Urbana-Champaign

Summer 2022 R. Ranga and Shantha Rao Scholarships - University of Illinois at Urbana-Champaign

2019 Steen Fellowship - St. Olaf College

\$4,170 to fund independent summer research project

Publications

2018 Matrix Square Roots of Polynomials

Kosmas Diveris, Trung Vu Pi Mu Epsilon Journal.

2022 T-system with Slanted Initial Data

Philippe Di Francesco, Trung Vu

[in preparation].

Teaching

At University of Illinois at Urbana - Champaign

Fall 2023 Teaching Assistant for Calculus 2

Spring 2022	Teaching Assistant for Calculus 2, Ranked as Excellent by Students
Fall 2021	Teaching Assistant for Calculus 1, Ranked as Excellent by Students
Spring 2021	Teaching Assistant for Calculus 2, Ranked as Excellent by Students
	At. St. Olaf College
Spring 2020	Teaching assistant for Real Analysis 1 and Combinatorics
Fall 2019	Supplemental Instructor for Linear Algebra
Spring 2019	Supplemental Instructor for Linear Algebra
Spring 2018	Supplemental Instructor for Principles of Statistics
Fall 2017	Academic Tutor for Calculus 1, Calculus 2 and Linear Algebra
Fall 2017	Teaching Assistant for General Chemistry
	Undergraduate Research Experience
	Joint work at St. Olaf College and University of Illinois at Urbana - Champaign via Steen Fellowship
Summer 2019	Application of Algebraic Geometry and Geometric Invariant Theory on Functional Neuroimaging Mentor: Graduate Student Megan Finnegan
	At. St. Olaf College
Summer 2018	Geographic Variation in Temporal Pattern Recognition in The Acoustic Par- asitoid Fly Ormia Ochracea Mentor: Professor Norman Lee
Fall 2017 – Sping 2020	Free Field Sound Localization Using the Sound Localization Arc Mentor: Professor Jeremy Loebach
Fall 2017 – Spring 2019	Pupillometry and Auditory Cognition in Normal Hearing Listeners, Hearing Impaired Individuals and Cochlear Implant Users Mentor: Professor Jeremy Loebach
Summer 2017	Matrix Square Roots of Polynomial Project Mentor: Professor Kosmas Diveris.
	Professional Memberships
2018 – Present	Pi Mu Epsilon Mathematical Honor Society
2018 – Present	Mathematical Association of America