Trung Vu

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Research interests

Algebraic combinatorics, cluster algebra, combinatorial aspects of vertex models, exactly solved models and integrable systems

Education

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

PhD in Mathematics

Mentors: Professors A, B.

2016 – 2020 St. Olaf College – Northfield, Minnesota

BA in Mathematics with concentration (minor) in Neuroscience

Honors and scholarships

2018 Pi Mu Epsilon Mathematical Honor Society

2019 Steen Fellowship (St. Olaf College)

\$4,170 to fund independent summer research project

Publications

2017 Matrix square roots of polynomials

Kosmas Diveris, Trung Vu Pi Mu Epsilon Journal.

Research experience

At. St. Olaf College

Fall 2017 - Pupillometry and Auditory Cognition in Normal Hearing Listeners, Hearing

Spring 2019 Impaired Individuals and Cochlear Implant Users

Mentors: Professor Jeremy Loebach (St. Olaf College).

Project investigating auditory and neurocognitive mechanisms that gives rise to accurate speech perception in a variety of listening environments in normal hearing, hearing impaired and cochlear implant users. Responsibility include testing participants in a multipart auditory neurocognitive battery, setting up and running the eye tracker for pupillometry measurements, helping condition and analyzing data.

Fall 2017-Sping

Free field sound localization using the SoLoArc Project

2020 Mentors: Professor Jeremy Loebach (St. Olaf College).

Project focuses on using SoLoArc (Sound Localization Arc) – a student-made portable sound localization apparatus – to test the ability to localize sound in horizontal space using interaural time difference (ITD) and interaural level difference (ILD), and in vertical space using head-related transfer functions and filtering. We developed the graphical user interface (GUI) for the SoLoArc. The GUI gave students who have had limited coding experience in MATLAB easily access and use the device, allowing it to be used in classes with less supervision. We designed and improved the automated pointing system using a potentiometer and a servo for more precise sound indication.

Teaching experience

At. St. Olaf College

Fall 2017 Teaching assistant, Chem 121: Course name here (University)

Topics and description of your responsibilities. Aliquam volutpat est vel massa. Sed dolor lacus, imperdiet non, ornare non, commodo eu, neque.

Average student rating: X/5.

Spring 2020 Teaching assistant, MATH 234: Course name here (University)

Topics and description of your responsibilities. Aliquam volutpat est vel massa. Sed dolor lacus, imperdiet non, ornare non, commodo eu, neque.

Average student rating: X/5.

Talks and tutorials

Month Year Title of your most recent presentation

Name of conference, workshop, seminar, etc., or a description

Month Year Title of your second most recent presentation

Name of conference, workshop, seminar, etc., or a description

Month Year Title of your third most recent presentation

Name of conference, workshop, seminar, etc., or a description

Mentorship and service

Month Year - Title of organization you are in (Name of your role)

Present Description of your responsibilities. Integer pretium semper justo. Proin risus. Nul-

lam id quam. Nam neque. Phasellus at purus et lib ero lacinia dictum.

Month Year - Title of organization you were in (Name of your role)

Month Year Description of your responsibilities. Integer pretium semper justo. Proin risus. Nul-

lam id quam. Nam neque. Phasellus at purus et lib ero lacinia dictum.

Professional memberships

Year - Present Name of professional society

Short description or conferences you attended.

Year - Present Name of professional society

Short description or conferences you attended.

Technical skills

Programming languages

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

Familiar with: C++, Julia

Software

Proficient in: Sage, Mathematica, Macaulay2

Familiar with: Tensor Flow, Arduino packages from MATLAB, Pupil Labs (Eye-

tracking devices software)

Languages

English (fluent), Vietnamese (fluent)