Minh N. Tran

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github.com/tnminhlc tnminhlc.github.io/minhtran/

EDUCATION

08/2018 – present

The University of Arizona
Bachelor of Science in Computer Science
Bachelor of Arts in Psychology
Minor in Statistics & Data Science
Anticipated: December 2021
GPA: 3.787/4.0

RESEARCH EXPERIENCE

01/2021 – present
Tucson, AZ

Research Assistant, *Compositional Systems Lab, University of Arizona*

- Collaborate with graduate students, Post-Docs and other members of the CIRCLES, a multi-campus project on self-driving cars and connected vehicles, which aims to construct advanced models of vehicles suitable to the model-based design of cyber-physical systems and reduce traffic congestion effects by expertly controlling the velocity of vehicles that are driving in congested traffic.
- Participate in coding and computing tasks that are aligned with data analysis, machine learning, data curation, and automation of data gathering to support the project.
- Develop prototypes in Python and re-implement code in C/C++ for speed on either embedded computers or through minicomputers such as a Raspberry Pi
- **Supervisor:** Dr. Jonathan Sprinkle

09/2020 – present
Tucson, AZ

Research Team Member, *School of Informations, University of Arizona*

- Work under a directed research course within the UA Holodeck, an NSF-funded research instrument envisioned as a software/hardware instrument incorporating visual, audio, and physical components and novel technologies to enhance social interactions
- Participate in the VIP-TAG (Tangible Activities for Geometry) team to assist faculty and graduate students with research and development issues
- Focus on the psychological curriculum design and algorithm design, and study how to integrate the lessons designed for children with the positional tracking system of a teachable robot
- **Supervisor:** Dr. Winslow Burleson

WORK EXPERIENCE

08/2020 – present
Tucson, AZ

Teaching Assistant, *Department of Computer Science, University of Arizona*

- Assist in the instruction of CSC 335 - Object-Oriented Programming course
- Mentor students in course lectures, online platforms, and via weekly office hours, and guide them through exercises on the related topics
- Collaborate with the primary course instructor and other teaching assistants to aid in the development of the course content
- Grade programming projects (including solo, pair, and team projects), labs, exams
- **Instructor:** Dr. Jonathan Misurda

11/2019 – 01/2021
Tucson, AZ

MMFE8 Tester, *Elementary Experimental Particle Physics Department*

- Participate in the physics research laboratory to help support the largest scientific collaboration in the world, the Large Hadron Collider (LHC) at CERN in Switzerland
- Test circuit boards for particle detectors
- **Supervisor:** Michelle Solis

04/2019 – 08/2020
Tucson, AZ

Web Developer/Designer Assistant, *Arizona Student Unions*

- Implement website architecture, programs, and scripts and design user interfaces
- Experience with PHP, SQL, JavaScript, ReactJS, HTML, CSS, Bootstrap, jQuery, Docker, Adobe Photoshop
- **Supervisor:** Yontaek Choi

01/2020 – 05/2020
Oro Valley, AZ

Mathematics Tutor, *Ironwood Ridge High School*

- Tutor high school students in Math-related coursework
- Guide students through written assignments and MatLab projects

08/2019 – 12/2019
Tucson, AZ

Outreach for Female Students in STEM, *Department of Mathematics*

- Assigned with 4-5 freshman women in STEM majors, lead weekly group discussions and meetings about current events and research opportunities in STEM
- Encourage female students to stay in STEM majors by providing them with helpful resources

RELEVANT COURSEWORK

- **Computer Science:** Object-Oriented Programming and Design, Software Development, Computer Organization, Systems Programming & Unix, Web Programming, Discrete Mathematics in Computer Science, Analysis of Discrete Structures, Algorithms, Geometric Algorithms, Automata, Grammars and Languages
- **Psychology:** Structure of Mind & Behavior, Psychological Measurements and Statistics, Research Methods, Cognitive Development, Cognitive Neuroscience: A Guide to Mind and Brain, Cognitive Development, Positive Psychology, Social Psychology, Personality, Health Psychology, Animal Learning
- **Statistics & Data Science:** Statistical Methods, Statistical Computing
- **Mathematics & Supporting Science:** Calculus I/II, Vector Calculus, Linear Algebra, General Chemistry I/II

TECHNICAL SKILLS

Programming
Java, C Programming, JavaScript, PHP, HTML, CSS

Programming
Python, R Programming, Bash, SQL, MIPS, MatLab

Software
Git, VSCode, Eclipse, Microsoft Words, Microsoft Exel, Microsoft PowerPoint, Adobe Photoshop, Agile Software, Scrum, Selenium

Others
Bootstrap, jQuery, React, Adobe Illustrator

HONORS & AWARDS

National Round - Vietnam Fund for Supporting Technological Creations (VIFOTEC) | 4th Prize

Project: Improving and Applying SuperMemo 2 Algorithm & Visual Learning Techniques to build a Supporting System for Studying Specialized English in Math and Natural Sciences

National Round | Vietnam Science & Engineering Fair (ViSEF) | 4th Prize

Project: Study the application of Piezoelectric in High-Frequency Linear Rotational Electric Motors

The University of Arizona | Term Honors & Scholarships

Global Wildcat Award | 2018 - 2022 (4-Year Merit Scholarship)
Academic Year Academic Distinction | 2018 - 2021 (all academic years)
Dean's List With Distinction | Fall 2019
Dean's List | 2019 - 2021 (all semesters)

SERVICE AND ACTIVITIES

08/2019 – present **Our Lady of La Vang,** *Volunteering Vietnamese Teacher*

10/2016 – 05/2018 **Youth Lao Cai Model United Nations,** *Founder & Former President*

10/2015 – 05/2018 **CLC Multimedia,** *Former Vice President*