

# Minh N. Tran

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## 🎓 EDUCATION

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### The University of Arizona (Tucson, AZ)

Anticipated May 2022

B.S. in Computer Science | B.A. in Psychology  
Minor in Statistics & Data Science  
GPA: 3.787/4.0

### Relevant Coursework

**Computer Science:** Object-Oriented Programming and Design, Software Development, Computer Organization, Systems Programming & Unix, Web Programming, Discrete Mathematics, Analysis of Discrete Structures, Algorithms, Geometric Algorithms, Automata, Grammars and Languages

**Psychology:** Structure of Mind & Behavior, Psychological Measurements and Statistics, Research Methods in Psychology, Cognitive Development, Cognitive Neuroscience, Positive Psychology, Social Psychology, Health Psychology, Personality

**Statistics & Data Science:** Statistical Methods, Statistical Computing, Calculus I/II, Vector Calculus, Linear Algebra, General Chemistry I/II

## 🧠 RESEARCH EXPERIENCE

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### Research Assistant

Jan 2021 – present

*Compositional Systems Lab, University of Arizona*

- Update a python package for real-time visualization and analysis of CAN data from the DBC files of supported modern vehicles such as Honda Pilot and Toyota Rav4.
- Create tests to validate vehicle-independent methods to get values from both Toyota and Honda vehicles when these two are driving at the same time in a coordinated way.
- Build a web application that allows users to associate privacy zones with a vehicle and purge privacy regions from collected data.
- Member of the Congestion Impacts Reduction via CAV-in-the-loop Lagrangian Energy Smoothing (CIRCLES) project ☞
- **Supervisor:** Dr. Jonathan Sprinkle

### Research Team Member

Sep 2020 – present

*School of Informations, University of Arizona*

- Study how to integrate the lessons designed for children with a positional tracking system of a teachable robot with adaptive cognitive and social supports.
- Generate ideas, create storylines, and sketch static ChalkTalk backgrounds for the lessons.
- Design and test background animations, robot's behaviors, audio system, and tracking system
- Member of the Verticle Integrated Projects under the UArizona Holodeck ☞
- **Supervisor:** Dr. Winslow Burleson

## WORK EXPERIENCE

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### Teaching Assistant

Aug 2020 – present

*Department of Computer Science, University of Arizona*

- Assist in the instruction of the Object-Oriented Programming and Design course, collaborate with the course instructor and other teaching assistants to aid in the development of the course content.
- Provide constructive support for students during weekly office hours, and grade class assignments.

### MMFE8 Tester

Nov 2019 – Jan 2021

*Elementary Experimental Particle Physics Department*

- Perform electronic testing to support the Large Hadron Collider (LHC) at CERN in Switzerland
- Run voltage, art, internal, and external tests on circuit boards for particle detectors

### Web Developer/Designer Assistant

Apr 2019 – Aug 2020

*Arizona Student Unions*

- Implement web architecture, programs, scripts, and design the user interfaces for various websites utilized by the Student Unions and the campus community.

### Outreach for Female Students in STEM

Aug 2019 – Dec 2019

*Department of Mathematics*

- Lead weekly group discussions and meetings about current events and research opportunities
- Encourage female students to stay in STEM majors by providing them with helpful resources

## TECHNICAL SKILLS

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**Programming** (Java, JavaScript, Python, C/C++, PHP, SQL, HTML, CSS, Bash, R Programming, Matlab)

**Software** (Git, Bootstrap, React, Agile, Scrum, Microsoft Words/Exel/PowerPoint, Adobe Photoshop)

## HONORS & AWARDS

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### The University of Arizona

Global Wildcat Award | 2018 - 2022

Academic Year Academic Distinction | 2018 - 2021

Dean's List With Distinction | Fall 2018

Dean's List | 2019 - 2021 (all semesters)

## SERVICE AND ACTIVITIES

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### Our Lady of La Vang

Aug 2019 – present

*Volunteering Vietnamese Teacher*

### Ironwood Ridge High School

Jan 2020 – May 2020

*Volunteering Mathematic Tutor*