

# Quang Duong

<http://quangmire.github.io> | [duongquang1@gmail.com](mailto:duongquang1@gmail.com) | <http://github.com/quangmire> | (832) 335 – 4818

## EDUCATION

### The University of Texas at Austin

Expected Graduation: May 2019

- Bachelor of Science in Computer Science
- Bachelor of Science in Mathematics
- Major GPA: 4.0 | Overall GPA: 3.9690
- Turing Scholar Honors Program
- Part of the Freshman Research Initiative
  - Computational Intelligence Stream

### Relevant Coursework

- Discrete Math, Data Structures, Computer Architecture, Linear Algebra, Vector Calculus, Differential Equations

### Current Coursework

- Operating Systems, Programming Languages, Real Analysis

## SKILLS

### Programming

- Proficient in Java, Python
- Familiar with C/C++, Unix Systems
- Exposed to HTML/CSS, Javascript, jQuery, MATLAB/Octave

### Other Skills

- Proficient in Vietnamese

## PERSONAL PROJECTS

### CPPN-NEAT (Python)

- Implemented variant of NEAT algorithm for evolving neural network topologies, modified to accommodate CPPNs
- Used to approximate functions and 3D models

### Turbulent Giggle (Java)

- Used Thalmic Labs' Myo Armband for gesture controlled Tetris
- Won 3<sup>rd</sup> Place in National Instruments Rapid Prototyping Competition at HackTX 2015

### Eval (C++)

- Parses and evaluates simple mathematical equations with recursive descent parsing
- Supports variables and basic functions

## EXPERIENCE

### FRI Research Fellowship

June 2016 – Present

- Utilized recent innovations in reinforcement learning and genetic algorithms to approximate 3D models
- Created technical reports and emphasized data collection and reproducible results during implementation

## ACTIVITIES

### Undergraduate Machine Learning (UML)

November 2015 – Present

- Foster ability in machine learning topics ranging from supervised to reinforcement learning
- Attend workshops to develop and hone skill while discussing recent advances

### Electronic Game Developer Society (EGaDS)

August 2015 – Present

- Polish and obtain game development and teamwork skills
- Accumulate experience and build portfolio with locally hosted game jams

## COMMUNITY INVOLVEMENT

### Tu Bi Foundation

2011 – Present

- Raise over \$2000 biannually for education and housing in rural Vietnam

### Houston Food Bank

Summer 2014

- Package food and essentials for distribution to hungry relief charity