YUHANG CHEN (TONY)

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# Education

**Bachelor of Engineer**: **Computer Science** Graduated in June 2021

Oregon State University Corvallis, OR

**GPA: 3.94** Dean's List [2017-2021]

# About Me

* From Beijing, China. Live in Portland, OR.
* Graduated from Oregon State University (Go Beavs!)
* Enthusiastic in Computer Science, especially in Artificial Intelligence/Machine learning.
* Married to ♥ Kaitlin ♥ (Applying Green Card now and should get it within 2 years).
* Love Basketball and Soccer! Love Costco!
* Love working hard and improving myself every day!
* Current under OPT with F1 visa.

# Research Experience

**Baby behavior psychology analysis**  Feb 2020 - July 2020

**Alan. Fern** (Professor and Associate Head of Research at Oregon State University) Corvallis, OR

* Joined Dr. Fern’s ML research group as an undergraduate research assistant and worked with another Ph.D. student.
* According to the videos from NYU Psychology Research Lab, I helped the Ph.D. student to make a visualization website, to simulate the movements of babies and toys. I added multiple features including detect the interactions between babies and toys, log this history of babies and toys movements, etc.

**Self-Aware Comedy Robots** Sep 2019 - June 2020

**Naomi. Fitter** (Assistant Professor at Oregon State University) Corvallis, OR

* Joined Dr. Fitter’s robot research group and did a senior capstone project with her for a year.
* Developed software by using Praat library to **extract raw data** from the recorded audio of the comedy robot. The raw data information includes Mean, Max/Min, Standard deviation of Intensity, and pitch.
* Created a Python software by using **scikit-learn** to train machine learning models and help the robot detect and

classify if the audience laughs during or after the joke. The models include K-nearest-neighbor, Random Forest, Support vector machine and Ensemble model of all three previous models. My team improved “post-Joke classification” accuracy from **53% to 85%** and set “Mid-Joke classification” accuracy to **73%**.

# Work History

**Software Engineer** July 2021 - Present

Siemens EDA (Mentor Graphics), Semiconductor Software Company Portland, OR

* Working for the Calibre PERC team and developing new features for the Calibre tool, which is a leading EDA Software.
* Currently in training to learn about IC design related knowledge
* Developing new features of UPF commands and applying them into the current Calibre Product. (UPF is short for Unified Power Format).

**Software Engineer Intern** June 2020 - Dec 2020

Siemens EDA (Mentor Graphics), Semiconductor Software Company Portland, OR

* Did a six-month internship with the Calibre PERC team and mainly used C/C++ and Python.
* Implemented and supported two major UPF commands with various related options. Wrote all related unit tests to make sure the commands were bug-free. (UPF is short for Unified Power Format).
* Received high reviews from my mentors and my teams, got a full-time return offer.

**Software Engineer Intern** Apr 2019 - Sep 2019

Electro Scientific Industries, Semiconductor Company Portland, OR

* Made a C# software to process **100,000 plus** of data from machine and applied different algorithms to analysis data and help system engineers make decisions.
* Implemented algorithms including Peaks and valley detection, Polynomial best fit of the curve, Normal distribution best fit of the curve, Logistic regression (**Classify data into two groups**).
* Helped system engineers to draw graphs and do data analysis with different algorithms. As a result, they can select a threshold to separate good and bad capacitor chips.

# Skills

C, C++, C#, Python, Java, JavaScript, jQuery, React, scikit-learn, Assembly, fast-learner