

Thao Phung

thaophung502@gmail.com

<https://github.com/thaophung> ◇ www.thaophung.com

EDUCATION

University of Wyoming, Laramie, WY

Aug 2013 - Dec 2018

B.S. in Computer Science

Online Degrees, Udacity

Bertelsmann Data Science Challenge

May 2018 - Aug 2018

Front-End Web Developer Nanodegree

Apr 2018 - Oct 2018

Intro to Self-Driving Cars Nanodegree

Oct 2017 - Jan 2018

Deep Learning Foundation Nanodegree

Feb - Sept 2017

Machine Learning Nanodegree

Aug 2016 - Jul 2017

RESEARCH AND PROJECTS

American sign language (ASL) recognition using deep neural networks

May 2018

Oral presented at Wyoming Undergraduate Research Day

- Hand-designed a training set of over 2860 videos for ASL alphabet including motion letters.
- Trained convolutional neural networks (CNNs) and recurrent neural networks (RNNs) using Python to recognize ASL hand gestures performed by different people in different lighting conditions.
- On a small, hand-generated training set, obtained 9.7% accuracy on test set, improving over the 3% accuracy obtained by random guessing.

Learning to solve symbolic math from visual inputs

May 2017

Poster presented at CVPR 2017 and NIPS 2017 workshops

- Trained CNNs to do addition and subtraction given visual inputs of handwritten equations.
- Obtained 98% test set accuracy on new handwriting styles of previously seen equations and 15% accuracy on entirely new equations.

Investigation on the use of perception manipulation to enhance virtual reality training *Oct 2016*

Poster presented at Rocky Mountain Celebration of Women in Computing (RMCWiC) 2016

- Researched action-specific perception: how a person's perception of the environment changes in conjunction with his/her ability to act in it.
- Designed Oculus-driven golf putting simulation in Unity.

WORK EXPERIENCE

Library Technical Assistant

Oct 2016 - July 2019

Coe Library, University of Wyoming

- Learned how to professionally handle and prepare fragile fossil specimens for 3D digitization using HP 3D Scan with structured light scanning technology and Clearform's Portable 3D Scanner.
- Processed more than 450 digital objects in different formats to be delivered via web; assisted with deployment and visualization of 3D objects on mobile devices.
- Developed a user-friendly, interactive web presentations of high-resolution 3D models.

Research Assistant

Evolving AI Lab, University of Wyoming

Dec 2016 - Dec 2018

3DiA Lab, University of Wyoming

Apr 2015 - Dec 2016

- Collaborated with a diverse group of graduate students on several research projects, resulting in two presentations at major conferences.
- Presented research papers and offered advice on other research projects during weekly lab meeting.

TECHNICAL SKILLS

- Extensive experience developing machine learning applications in Python using sikit-learn and Keras libraries.
- Fluent in developing solutions to classification problems via regression, clustering, and deep learning in Python.
- Familiar with using Caffe and Tensorflow frameworks to perform research in artificial intelligence.
- Comfortable operating Linux, Mac OS X, and Windows operating systems.
- **Languages and Software:** Python, C++, Java, C#, HTML, CSS, Microsoft Office, Adobe Photoshop
- **Statistical Methods:** regression models, dimensionality reduction, Bayesian statistics

COURSE WORKS

- Machine Learning
- Artificial Intelligence
- Data Mining
- Linear Algebra

GRANTS AND FELLOWSHIPS

- Women in Machine Learning at NIPs travel award: \$300 *Dec 2017*
- Women in Computer Vision at CVPR travel award: \$900 *Jul 2017*
- Wyoming Research Scholar Program grant: \$500 *Jul 2017*
- EPSCoR Research Fellowship: \$1,600 *Oct 2015 - May 2016*

AWARDS AND SCHOLARSHIPS

- Bertelsmann Data Science Challenge Scholarship *May 2018 - Aug 2018*
- Grow with Google Front-End Web Developer Nanodegree Scholarship *Apr 2018 - Oct 2018*
- Grow with Google Challenge Scholarship: Front-End Web Dev *Jan 2018 - Apr 2018*
- Lyft Intro to Self-Driving Cars Scholarship: \$800 *Oct 2017 - Jan 2018*
- 3rd Best Poster Presentation at RMCWiC *Sept 2016*
- International Student Scholarship: \$1,000 *Aug 2014 - May 2015*
- Rocky Mountain Scholars Award: \$22,000 *Aug 2013 - May 2017*

PRESENTATIONS

Poster Presentations

- **Women in Machine Learning (WiML) in conjunction with NIPs** *Dec 2017*
Learning to solve symbolic math from visual inputs *Long Beach, CA*
- **Women in Computer Vision (WiCV) in conjunction with CVPR** *Jul 2017*
Learning to solve symbolic math from visual inputs *Honolulu, HI*
- **Rocky Mountain Celebration of Women in Computing (RMCWiC)** *Sept 2016*
Investigation on the use of perception manipulation to enhance virtual reality training *Salt Lake City, UT*

Oral Presentation

- **Research Day, University of Wyoming** *Apr 2018*
American Sign Language Recognition with Microsoft HoloLens *Laramie, WY*
- **Research Day, University of Wyoming** *May 2016*
Investigation on the use of perception manipulation to enhance virtual reality training *Laramie, WY*

SERVICES AND ACTIVITIES

Reviewing

- Workshop papers: WiML2017

LANGUAGES

Vietnamese	Native speaker
English	Proficient