Thao Phung

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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 3DiA Lab, University of Wyoming

Dec 2016 - Dec 2018 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	
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- 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