NGHI DUONG

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EDUCATION

California State Polytechnic, Pomona (09/2017 - Present) Pomona, California
Master of Science, Computer Science
Emphasis on Computer Vision and Machine Learning

University of California, San Diego (09/2013 – 03/2016) La Jolla, San Diego
Bachelor of Science, Mathematics
Provost Honors: Fall 2013, Winter 2014, Spring 2014

PUBLICATION

1. T. A. Duong, N. Duong, and D. Le "Integration of Bio-Inspired, Control-Based Visual and Olfactory Data for The Detection of An Elusive Target" AIP Conference Proceedings 1798, 020051 (2017)

RESEARCH EXPERIENCE

- Research Student at Cal Poly Pomona (09/2017 - Present)
  - Reconstruct 3D face model from a single image using 3D Morphable Model
  - Fitting model by estimate shape model via landmark correspondence and edge correspondence.
  - Combining fitting model with deep learning image enhancement.
  - Estimate texture parameter using Gauss-Newton iterative method.

- Research intern at AdaptiveComputation LLC (05/2017 - Present)
  - Fine-tuning Bio-Inspired extended visual model using MegaFace challenge data.
  - Developing and testing facial recognition system on Python
  - Data consists of 672K identities (4.7 million photos)

- Research engineer at NeuralEye LLC (04/2016 – 01/2017)
  - Research on facial recognition with a core of Bio-Inspired visual model
  - Research on feature extraction engine based on unsupervised learning techniques.
  - Research on Face Illumination Normalization methods
  - Accuracy of our facial recognition system: about 92% rank 1 on Feret database, about 80% rank 1 on internal database, which is under real environment.
  - Developed backend side for facial recognition Android Demo application.
  - Developed end-to-end facial recognition system using Bio-inspired visual model on MatLab.
  - Porting and optimizing facial recognition Android Demo application into Intel Wearable device, Recon Jet.
  - *Technologies: Saccadic Sight Algorithm, Bio-inspired model, Android, Google Face API*

WORK EXPERIENCE (AS A SOFTWARE ENGINEER INTERN)

- Amazon (06/23/15 – 09/11/2015) Supervisor: Bharath Gali
  - Developed a new system to support B2B customer.
  - Provided a brand new backend service with unit tests and brand new UI page.
  - *Technologies: Java, Spring framework, PowerMock, DynamoDB, Lombok, Mason framework and other Amazon internal tools*

- findlight.net (11/03/14 – 12/19/14) Supervisor: Hrant Seferyan and Vahan Senekerimyan
  - Providing a maintenance site for www.findlight.net by making 503.php file and redirect whole site to this .php file.
  - Designing a new "posting new item" process.

PROJECT EXPERIENCE

- Amazon Recommender System (Fall 2015):
  - Simple system to predict user's rating on a single product by a simple latent factor model.
  - Another simple model to predict the helpfulness of a user's review based on a linear regression model.
  - Dataset of amazon product review from Stanford datacenter.
  - *Technologies: Anaconda Python, latent factor model*
- Simple Tic tac toe game with AI (Summer 2014):
  - My first and simple computer played algorithm for 3-by-3 tic tac toe.
  - Combined it with touchless Windows to make another version to play with Leap Motion.
  - *Technologies: Leap motion API's*.

QUALIFICATION

• Specialized Area: Computer Vision, Image Processing, Data Analysis
• Language: Java, MatLab, Python, C++, Perl
• Operating system: Linux, Windows.

HOBBIES

Soccer, hiking, Sudoku, road trip, traveling.