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Research Interests: Computer graphics & animation, image processing, machine learning, vision

Education

University of California, Irvine

Irvine, CA

Ph.D. IN COMPUTER SCIENCE, SPECIALIZATION: COMPUTER GRAPHICS

Sep 2018 - Present

Advisor: Gopi Meenakshisundaram

University of California, San Diego

La Jolla, CA

B.S. IN MATHEMATICS-COMPUTER SCIENCE

Sep 2014 - Jun 2018

B.S. IN COGNITIVE SCIENCE WITH SPECIALIZATION IN HUMAN-COMPUTER INTERACTION

Research Experience

Interactive Graphics & Visualization Laboratory, UC Irvine

Irvine, CA

Ph.D. STUDENT

Sep 2018 - Present

- · Led urology processing project to create aesthetic visualizations of volumetric CT scans and utilized deep-learning techniques for semantic segmentation of abdominal organs
- Assisted in geometrically-aware topological cutting algorithms for tori decomposition

Chiba Neuroscience Laboratory, UC San Diego Department of Cognitive Science

La Jolla, CA

RESEARCH ASSISTANT

Dec 2015 - Sep 2018

- Integrated 3DTracker-FAB, cameras, IMUs, neural recordings with Python OpenCV for 4K res, 30fps, real-time behavior classification
- Developed/maintained ROS C++ modules, Python behavioral code for interactive educational robot, deployed in several classrooms
- · Collated data and wrote software tools using Python's OpenCV to assist in analysis for classification of rodent facial expression data
- · Managed and supervised undergraduate / high school intern research projects in pro-social rodent behavior and empathy

Work Experience _

Diverse Educational Community and Doctoral Experience, UC Irvine

Irvine, CA

DECADE PLUS LEADERSHIP COACH

Feb 2019 - present

• Mentors and coaches first-gen under-represented undergraduate students

Retirement Association, UC San Diego

La Jolla, CA

OFFICE & SUPPLIES MANAGER

Sep 2015 - Jul 2016

- · Assisted in user database management, event planning, social media presence, and flyer design
- · Reviewed accounting, supply, banking, and financial records for 2150+ association members
- Supervised and trained interns and new hires

Chancellor's Scholars Alliance, UC San Diego

La Jolla, CA

ACTING CO-PRESIDENT, CO-VICE PRESIDENT, WEBMASTER & COMMUNICATIONS CHAIR

Oct 2014 - Sep 2018

Oversaw event planning, peer-mentoring systems focused on outreach for 200+ underrepresented first-generation students

Projects.

Anime Recommender System Analysis

Python

ANDYTH.AI/ANIME-RECOMMENDER

Dec 2017

Exploratory analysis on myanimelist.net dataset, developed collaborative filtering algorithm for recommendations given user histories

Brain-o-War C++, OpenGL, GLSL, NeuroSky

ANDYTH.AI/BRAINOWAR Feb 2017 - Mar 2017

Self-made OpenGL rendering engine with an implemented BCI 3D tug-of-war game that uses player brain waves as control inputs.

Programming: Python, C++, C, MATLAB, Java, HTML, CSS, Javascript, LATEX, Bash shell scripting

Software Tools: OpenCV, scikit-learn, Keras, Tensorflow, VTK, Unity, OpenGL, GLSL, Oculus VR, Unix/Linux

Languages: English (native speaker), Vietnamese (professional working proficiency)

Teaching.

_____ Awards & Honors _____

SU 2019	TA, ICS 33 Intermediate Programming in Python	Jun 2019	Mentoring Excellence Certificate
SP 2019	Reader, ICS 45C Programming in C++	Feb 2018	UCI Dean's Award Fellowship
WI 2019	TA, ICS 32 Programming with Software Libraries	Jul 2017	UCSD Student Foundation Scholarship
FA 2018	TA, ICS 33 Intermediate Programming in Python	2015	Darcy & Robert Bingham Scholarship
WI 2018	TA, COGS 189 Brain-Computing Interfaces	Sep 2014	UCSD Chancellor's Scholarship