

Seeking internship in Computer Vision field for Summer 2019

Education

University of Illinois at Urbana-Champaign

Urbana, IL

PURSUING PH.D. IN COMPUTER SCIENCE

Aug. 2018 - Present

Pennsylvania State University

State College, PA

B.S. HONOR IN COMPUTER SCIENCE AND MINOR IN MATHEMATICS (GRADUATED WITH MAGNA CUM LAUDE)

Aug. 2014 - May 2018

Selected Research Experience

Computer Vision Group (UIUC)

Urbana,IL

GRADUATE RESEARCH ASSISTANT

Aug. 2018 - Present

- Supervised by Prof. Svetlana Lazebnik
- Conduct research on scene understanding, especially on image phrase localization
- · Leverage deep learning and large-scale dataset

Laboratory for Perception, Action and Cognition (Penn State)

State College, PA April 2017 - June 2018

Undergraduate Researcher

• Supervised by Profs. *Robert Collins* and *Yanxi Liu*

- Multiple Object Tracking
 - Accurately track >70 indistinguishable infrared markers put on human subjects for long sequences
 - Correctly fill long gaps by encoding human body geometrics to predict marker's trajectories
 - Reduce motion capture data cleaning time from 10 hours manually to 5 minutes automatically
- · Motion Analysis on Skeletal Data
 - Compare the performances of different subjects on a same sport quantitatively precisely
 - Automatically give feedback to users about how to adjust their motions to improve a sport performance
 - Predict center of mass of subjects by leveraging foot pressure data and motion capture data

Selected Projects

E-COMMERCE WEBAPP: YABE

Jan. 2018 - April 2018

• Enable users to buy/sell/bid; Implemented with Django; Deployed on Microsoft Azure

Animals Classification via Transfer Learning on CNN

March 2017 - April 2017

• Achieve 90% accuracy by fine-tuning with Multi-Layer Perceptrons (MLP) and Support Vector Machine (SVM)

Skills_

PROGRAMMING LANGUAGE

• Matlab, Python, C/C++, LaTeX, OpenGL, Django, HTML/CSS

MOTION CAPTURE

- Experience with **Nexus Vicon** motion capture system
- · Familiarity with collecting and recording motion capture data of default human subject model and self-defined models
- Expertise with cleaning raw motion capture data in terms of gap filling and error correction manually and automatically