Ziyue "Alan" Xiang

Research Assistant

Graduate student researcher with experience in machine learning, specialized in using computer vision approaches to tackle media forensics problems.

in ziyue-alan-xiang

xziyue

WORK EXPERIENCE

Research Assistant

VIPER Lab, Purdue ECE

Aug. 2020-Present

Investigating reliable and cost-effective approach to counter deepfake and other types of media forgery technique that may bring substantial threat to the credibility of everyday information

Research Assistant

SOS+CD Lab, iSchool, Syracuse University

Aug. 2018-July 2020

- Developed automated tools for image manipulation detection in science
- Facilitated the application of an US ORI grant

Teaching Assistant

EECS, Syracuse University

Jan. 2020-May 2020

- Teaching assistant of CIS-375: Discrete Mathematics, lectured by Prof. Andrew C. Lee
- Participated in grading, hosting office hours, preparing recitation materials; Researched and experimented the transition to on-line learning during COVID-19 pandemic

EDUCATION

Ph.D. in Electrical & Computer Engineering

Purdue University, West Lafayette, IN

Aug. 2020-Present

MSc. in Computer Science

Syracuse University, Syracuse, NY

Aug. 2018-May 2020

BSc. in Information & Computing Science

Sun Yat-sen University, Guangdong, China

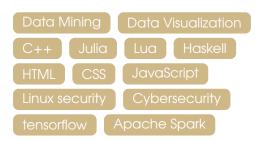
Sept. 2014-June 2018

Best undergraduate thesis award

SELECTED PROJECTS

- Data-driven false-positive likelihood map for image reuse detection
- Scientific image tampering detection based on noise inconsistencies
- WPANTAP: virtual Linux network driver for IEEE 802.15.4 IoT device simulation
- Chinese lip-reading system based on RNN

SKILLS



KEY Skills

- Python
 - maximizing Python's performance with numpy, scipy as well as Cython and C++ extensions
- Machine learning (computer vision)
 - Understand the mechanism of most machine learning algorithms and the usage of major ML and CV toolkits
- ETFX
 - Proficient with advanced T_EX technologies such as L^AT_EX3 and Lual^AT_EX

LANGUAGES

English
Chinese(Mandarin)
Cantonese

TRAINING/CERTIFICATES

- Graduate teaching assistant training (2020)
- CITI Program–Responsible Conduct of Research (2019)
- CITI Program
 –Biomedical Research Investigators and Key Personnel (2020)

OTHER ACTIVITIES

ECS Global Graduate Ambassador–Orientation Leader

Syracuse University

Aug. 2019

- Organized orientation event for new Syracuse ECS international students
- Led a group of new foreign students in the scavenger hunt