Ziyue "Alan" Xiang

Research Assistant

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



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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
- Assisted the application of US ORI grant: "Humancentered automatic tracing, detection, and evaluation of image and data tampering"

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 online learning during COVID-19 pandemic

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EDUCATION

Ph.D. in Electrical & Computer Engineering

Purdue University

Aua. 2020-Present

MSc. in Computer Science

Syracuse University

Aug. 2018-May 2020

BSc. in Information & Computing Science

Sun Yat-sen University, Guangdong, China

Sept. 2014-June 2018

Best undergraduate thesis award

SKILLS

Data Mining Data Visualiza

C++ | Julia | Lua | Hask

HTML CSS JavaScript

Linux security Cybersecurity

tensorflow Apo

KEY Skills

- Python
 - Proficient in the usage of numpy and scipy, which maximizes Python's performance
 - Experienced at parallelizing Python, as well as extending Python with Cython or C++
- Machine learning (computer vision)
 - Studied and understood the mathematical derivation of most off-the-shelf machine learning algorithms
 - Familiar with machine learning toolkits (e.g. sckitlearn) and computer vision toolkits (e.g. OpenCV)
- MFX
 - Familiar with advanced T_EX technologies such as धT_EX3 and Lual[®]T_EX
 - Active package developer in MEX community (e.g. luaprogtable)

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)