Ziyue "Alan" Xiang
Research Assistant
Video and Image Processing Laboratory (VIPER),
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Education

- **Ph.D. in Electrical and Computer Engineering**   Aug. 2020–Present
  Purdue University, West Lafayette, Indiana, USA

- **Msc. in Computer Science**   Aug. 2018–May 2020
  Syracuse University, Syracuse, New York, USA

- **Berkeley International Study Program**   Aug. 2016–Dec. 2016
  University of California, Berkeley California, USA

- **Bsc. in Information and Computing Science**   Sept. 2014–June 2018
  Sun Yat-sen University, Guangdong, China
  - Best undergraduate thesis award

Work Experience

- **Research Assistant**   Aug. 2020–Present
  Video and Image Processing Laboratory (VIPER), ECE, Purdue University
  https://engineering.purdue.edu/~ips/
  - Conducting research under the SemaFor program
    https://engineering.purdue.edu/SEMAFOR/
  - Investigating reliable and cost-effective approach to counter deepfake and other types of media manipulation techniques that bring substantial threat to the credibility of information

- **Teaching Assistant**   Jan. 2020–May 2020
  EECS, Syracuse University
  - Teaching assisant of *CIS-375: Discrete Mathematics* lectured by Prof. Andrew C. Lee
  - Responsible for grading, hosting office hours, and preparing recitation materials
  - Researched and practiced the transition to online learning during the COVID-19 pandemic

- **Research Assistant**   Aug. 2018–July 2020
  SOS+CD Lab, iSchool, Syracuse University
  https://scienceofscience.org/
  - Developed techniques to detection figure manipuluation in scientific publications
  - Assisted in a successful grant application from US Office of Research Integrity
  - Participated in the organization of the first Computational Research Integrity Conference
    https://cri-conf.org/

Publication

⬤ 2021 ⬤

Ziyue Xiang, János Horváth, Sriram Baireddy, Paolo Bestagini, Stefano Tubaro, and Edward J. Delp (June 2021). "Forensic Analysis of Video Files Using Metadata". In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*

⬤ 2020 ⬤

Ziyue Xiang and Daniel E. Acuna (2020). "Scientific Image Tampering Detection Based On Noise Inconsistencies: A Method And Datasets". In: *arXiv preprint arXiv:2001.07799*. URL: https://arxiv.org/abs/2001.07799

Daniel E. Acuna and **Ziyue Xiang** (2020). "Estimating a Null Model of Scientific Image Reuse to Support Research Integrity Investigations". In: *arXiv preprint arXiv:2003.00878*. URL: https://arxiv.org/abs/2003.00878

Online Projects

Skills

Python C++ Cython Lua HTML/CSS/JavaScript LaTeX Haskell Julia
Data Mining Data Visualization Machine Learning Computer Vision Linux Security Cybersecurity
tensorflow Apache Spark

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