

# XU ZHENG

✉ xzhen019@fiu.edu    🏠 <https://aslanding.github.io/>

## EDUCATION

- |   |                       |
|---|-----------------------|
| <b>Florida International University(FIU)</b>                            | Jan. 2023 - Now       |
| · Ph.D. in Computer Science    Advisor: Prof. Dongsheng Luo             | Miami, USA            |
| <b>University of Electronic Science and Technology of China (UESTC)</b> | Sep. 2018 - Jul. 2021 |
| · M.E. in Control Science and Engineering                               | Chengdu, China        |
| <b>Chongqing University (CQU)</b>                                       | Sep. 2014 - Jul. 2018 |
| · B.E. in Electronic Science and Technology                             | Chongqing, China      |

## RESEARCH AREAS

**Explainable AI, Graph Neural Networks(GNNs), Time Series Learning, Contrastive Learning**

## WORKING EXPERIENCE

- |   |                       |
|---|-----------------------|
| <b>DSSS, NEC Lab</b>  | May 2024 - Aug. 2024  |
| Research Intern, Mentor: Dr. Junxiang Wang  | Princeton, NJ         |
| · Multi-Modal Time Series Anomaly Detection.  |                       |
| <b>Department of Image Algorithm, ZTE</b>   | July 2021 - Jan. 2023 |
| AI and Algorithm Design   | Chengdu, China        |
| · Created automation data collection pipeline, designed deep neural network for restoring images for <b>Under-Display Camera(UDC)</b> |                       |
| · Implemented pruning, and quantization methods for <b>Raw Image Denoising Networks</b> .   |                       |
| · Tested and deployed deep neural networks on Android platform with <b>Tflite, Snapdragon QNN</b> .                                   |                       |

## SELECTED PROJECTS

- |   |                        |
|---|------------------------|
| <b>Explainable Authorship Detection</b>   | Nov. 2024 - Now        |
| Advisor: Prof. Dongsheng Luo, Dr. Wei Cheng   |                        |
| · An explainable framework for LLM authorship detection.  |                        |
| <b>Explainable Graph Neural Networks</b>  | Sept. 2023 - Now       |
| Advisor: Prof. Dongsheng Luo, FIU   |                        |
| · Explainability-Assisted Graph Neural Networks for Data Efficiency.  |                        |
| · Robust Evaluation Metrics for Explainable GNNs.   |                        |
| <b>Time Series Contrastive Learning with Adaptive Augmentations</b>   | Jan. 2023 - Sept. 2023 |
| Advisor: Prof. Dongsheng Luo, FIU   |                        |
| · Information-theoretic framework for time series data augmentations.   |                        |
| · Contrastive learning augmentation framework for time series representation.   |                        |
| <b>Generative Adversarial Learning for 3D Human Shape Generation</b>  | May 2019 - May 2021    |
| Advisor: Prof. Yali Zheng, UESTC  |                        |
| · Explored human mesh generating by using <b>Conditional GAN</b> and optimization-based method from a single picture based on <b>SMPL</b> . |                        |
| · Explored human mesh recovery under multi-view constraints.  |                        |
| · Estimated human mesh postures using 2D postures and weak depth labels.  |                        |

## SELECTED PAPERS

- Xu Zheng**, et al, Wei Cheng, Dongsheng Luo, "LM<sup>2</sup>OTIFS: An Explainable Framework for Text Authorship Detection", Manuscript
- Xu Zheng**, Farhad Shirani, Zhuomin Chen, Chaohao Lin, Wei Cheng, Wenbo Guo, Dongsheng Luo, "F-Fidelity: A Robust Framework for Faithfulness Evaluation of Explainable AI", ICLR, 2025

3. Zhuomin Chen, Jingchao Ni, Hojat Allah Salehi, **Xu Zheng**, Esteban Schafr, Farhad Shirani, Dongsheng Luo, “Explanation-Preserving Augmentation for Semi-Supervised Graph Representation Learning”. Preprint, arXiv:2410.12657
4. **Xu Zheng**, et. al, Dongsheng Luo, “PAC Learnability under Explanation-Preserving Graph Perturbations”. Preprint, arXiv:2402.05039
5. Zichuan Liu, Tianchun Wang, Jimeng Shi, **Xu Zheng**, et. al, Dongsheng Luo, “TimeX++: Learning Time-Series Explanations with Information Bottleneck”. ICML, 2024
6. **Xu Zheng**, Tianchun Wang, Wei Cheng, Aitian Ma, Haifeng Chen, Mo Sha, Dongsheng Luo, “Parametric Augmentation for Time Series Contrastive Learning”, ICLR, 2024, IJCAI workshop AI4TS, 2023. (**Best Paper Award**)
7. **Xu Zheng**<sup>\*</sup>, Farhad Shirani<sup>\*</sup>, Tianchun Wang, Wei Cheng, Zhuomin Chen, Haifeng Chen, Hua Wei, Dongsheng Luo, “Towards Robust Fidelity for Evaluating Explainability of Graph Neural Networks”, ICLR, 2024.
8. **Xu Zheng**, Tianchun Wang, Samin Yasar Chowdhury, Ruimin Sun, Dongsheng Luo, “Unsafe Behavior Detection with Adaptive Contrastive Learning in Industrial Control Systems”, IEEE European Symposium on Security and Privacy Workshops, EuroS&PW 2023.
9. Minghao Lin, Minghao Cheng, Yueqi Chen, **Xu Zheng**, Dongsheng Luo, Huajiang Chen, “CLExtract: An End-to-End Tool Decoding Highly Corrupted Satellite Stream from Eavesdropping”, Black Hat USA Arsenal 2023.
10. **Xu Zheng**, Yali Zheng, Shubing Yang, “Generating Multiple Hypotheses for 3D Human Mesh and Pose using Conditional Generative Adversarial Nets”, Proceedings of the Asian Conference on Computer Vision, ACCV 2022.

## TEACHING EXPERIENCES

---

<b>Intermediate Java Programming</b>	Jan. 2024 - Apr. 2024
<ul style="list-style-type: none"> <li>· Role: Teaching Assistant</li> <li>· Instructor: Prof. Mustafa Ocal, FIU</li> <li>· 69 Students</li> </ul>	
<b>Introduction to Artificial Intelligence</b>	Aug. 2023 - Dec. 2023
<ul style="list-style-type: none"> <li>· Role: Teaching Assistant</li> <li>· Instructor: Prof. Yanzhao Wu, FIU</li> <li>· 39 Students</li> </ul>	
<b>System Programing</b>	May 2023 - Aug. 2023
<ul style="list-style-type: none"> <li>· Role: Teaching Assistant</li> <li>· Instructor: Prof. Latesh Kumar KJ, FIU</li> <li>· Over 40 Students</li> </ul>	

## PROFESSIONAL SERVICES

---

<b>Reviewer</b>
<ul style="list-style-type: none"> <li>· NeurIPS 24</li> <li>· CIKM 24</li> <li>· ICLR 25</li> <li>· ICML 25</li> <li>· AISTATS 25</li> <li>· TKDE</li> </ul>
<b>External Reviewer</b>
<ul style="list-style-type: none"> <li>· ICDM 22,23,24</li> <li>· WSDM 23,24</li> <li>· SDM 24</li> <li>· KDD 23</li> <li>· ICLR 24</li> <li>· IJCAI 23, 24</li> <li>· ICML 23, 24</li> <li>· NeurIPS 23</li> <li>· AAAI 25</li> <li>· IEEE CLOUD 2023</li> </ul>

- ACM TKDD
- PAKDD 24

## SOFTWARE AND DATA RELEASE

---

### **A Robust Decoding System for Highly Corrupted Satellite Stream Recovery**

- <https://github.com/AslanDing/CLEextract>

### **AutoTCL: Automated Time Series Contrastive Learning with Adaptive Augmentations**

- <https://github.com/AslanDing/AutoTCL>

### **Towards Robust Fidelity for Evaluating Explainability of Graph Neural Networks**

- <https://github.com/AslanDing/Robust-Fidelity>

### **F-Fidelity: A Robust Framework for Faithfulness Evaluation of Explainable AI**

- <https://github.com/AslanDing/Finetune-Fidelity>