

Pinxin Liu (Andy)

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EDUCATION

- Universiry of Rochester** NY, USA
Highest Honor Distinction in Research, BS - Computer Science; GPA: 3.96/4.0 July 2020 - May 2024
Courses: Advanced Computer Vision, Natural Language Processing, Advanced Algorithms, Machine Learning, Frontiers in Deep Learning, Statistical Speech & Language Processing, Computer Organization, Operations Research, Programming Languages & Design, Data Mining, Computer Models & Limitations, Independent Study-Honors, Optimization for Machine Learning

WORK EXPERIENCE

- Flawless AI** NY, USA
Research Scientist Intern June 2024 - Nov 2024
Research: Human Motion Synthesis; Co-Speech-Gesture Video Generation; 3D face modeling with relighting

PUBLICATIONS

- ECCV 2024:** Liu, Pinxin*, Luchuan Song*, Lele Chen, Celong Liu, and Chenliang Xu. "Tri²-plane: Volumetric Avatar Reconstruction with Feature Pyramid" [Demo Video] [Paper]
- Siggraph Aisa 2024:** Luchuan Song, Lele Chen, Celong Liu, Liu, Pinxin* and Chenliang Xu. "TextToon: Real-Time Text Toonify Head Avatar from Single Video" [Paper]
- InterSpeech 2024:** Zehua Kcriss Li, Meiyong Melissa Chen, Yi Zhong, Pinxin Liu, Zhiyao Duan. "Articulatory Phonetics Informed Controllable Expressive Speech Synthesis" [Paper]
- ACL 2024:** Liu, Pinxin*, Xinyi Liu*, and Hangfeng he. "An Empirical Analysis on Large Language Models in Debate Evaluation" [Paper]
- ICASSP 2024:** Pinxin Liu*, Song, Luchuan*, Guojun Yin, and Chenliang Xu. "Adaptive Super Resolution For One-Shot Talking-Head Generation" ICASSP 2024 [Demo Video] [Project]
- Preprint, In submission:** Liu, Pinxin*, Luchuan Song*, Daoan Zhang, Hang Hua, Yunlong Tang, Huaijin Tu, Jiebo Luo and Chenliang Xu. "GaussianStyle: Gaussian Head Avatar via StyleGAN" [Paper]
- JMIR 2024:** Liu, Pinxin*, Xubin Lou*, Zidian Xie, and Dongmei Li. "Public Perceptions and Discussions of the US Food and Drug Administration's JUUL Ban Policy on Twitter: Observational Study" JMIR Formative Research 2024
- NTR 2024:** Zidian Xie, Shijian Deng, Liu, Pinxin, Xubin Lou, Chenliang Xu, Dongmei Li. "Characterizing anti-vaping posts for effective communication on Instagram using multimodal deep learning" Nicotine and Tobacco Research [Paper]
- AAAI 2023:** Wang, Hecong , Erqian Xu, Pinxin Liu, Zijian Meng, and Zhen Bai. "Contextualized Multi-Step Commonsense Reasoning through Context Extension." R2HCAI: The AAAI 2023 Workshop on Representation Learning for Responsible Human-Centric AI
- IJERPH 2023:** Pinxin Liu*, Lou, Xubin*, Zidian Xie, and Dongmei Li. "Public Perceptions on the Policy of Electronic Cigarettes as Medical Products on Twitter." International Journal of Environmental Research and Public Health

SERVICES

- Conference Reviewer:**
CVPR 2024, EMNLP 2023, ACM SIGKDD 2023, 3DV 2025, ICLR 2025
- Teaching Assistance:**
Machine Vision (CSC 249&449), University of Rochester, Spring 2024
Machine Learning (CSC 246&446), University of Rochester, Fall 2023
Natural Language Processing (CSC 247&447), University of Rochester, Spring 2023
Statistical Speech & Language Processing (CSC 248&448), University of Rochester, Fall 2022
Discrete Mathematics (MATH 150), University of Rochester, Spring 2022
- Club Organization:**
CSUG (Computer Science Undergrad Council) Tutor, Club Co-Leader, Fall 2022 - Spring 2022

HONORS AND AWARDS

- Dean List - All four years at U of Rochester
- Honor in Mathematic Competition in Modeling (MCM) - Jan 2021
- National Student Employee of the Year - April 2024
- Highest Honor Distinction in Research - May 2024

SKILLS

- Languages:** Python, PHP, C++, JavaScript, SQL, Bash, JAVA
- Frameworks:** Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS, LAMP
- Tools:** GIT, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS