Junjie Xu

Direct Ph.D. Researcher · Affective AI · East China Normal University

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RESEARCH INTERESTS

Multimodal Affective Computing · Cross-modal Alignment · Music-to-Image Generation · Human-AI Collaboration

EDUCATION

2023 — 2028 (expected)	Direct Ph.D. student, Computer Science — East China Normal University, Shanghai
2026.11 — 2027.11	Upcoming visiting research, Nanyang Technological University — hosted by Prof. Eric Cambria (CSC-funded)

PUBLICATIONS

Published papers only, including first-author and collaborative research.

APEX: Learning Adaptive Priorities for Multi-Objective Alignment in Vision-Language Generation

D Chen, X Zhuang, J Xu, L Xie, Z Wang, J Zhuang, H Yang, L Dou, X He, et al.

Findings of ACL 2026 · 4922–4939 **Published**

Multimodal Few-Channel EEG Emotion Recognition Based on Brain Asymmetry

Q Shen, Z Zhang, J Xu, Z Lei, X Wu, D Dong, L He

ICASSP 2026 **Published**

MARS: Multimodal-Assisted Refined Semantic Alignment

Junjie Xu, Xingjiao Wu, Zihao Zhang, Shuwen Yang, Tianlong Ma, Daoguo Dong, Liang He

Information Processing & Management 63 (1), 104292 **Published**

Temporal-Conditioned Symbolic Alignment for Controllable Text-to-Music Generation

Z Zhang, X Wu, J Xu, et al.

ACM Multimedia 2025 · 10728–10737 **Published**

Multi-Type Preference Learning: Enabling Minimum-Redundancy Maximum-Relevance Preference Combination for Surgical Gesture Recognition

Z Liu, J Xu, et al.

ICRA 2025 · 1163–1169 **Published**

Bidirectional Directed Acyclic Graph Neural Network for Aspect-level Sentiment Classification

Junjie Xu, Luwei Xiao, Anran Wu, Tianlong Ma, Daoguo Dong, Liang He

ACM Transactions on Asian and Low-Resource Language Information Processing **Published**

Attention Mixture Network for Crowd Counting via Binarization Transfer

Junjie Xu, Zihao Zhang, Xin Li, Weijie Li, Kun Yu

McGE Workshop · ACM Multimedia 2024 **Published**

Atlantis: Aesthetic-Oriented Multiple Granularities Fusion Network for Sentiment Analysis

Luwei Xiao, Xingjiao Wu, **Junjie Xu**, Weijie Li, Cheng Jin, Liang He

Information Fusion 106, 102304 **Published**

EmoStyle: Emotion-Aware Semantic Image Manipulation with Audio Guidance

Q Shen, **Junjie Xu**, J Mei, X Wu, D Dong

Applied Sciences 14 (8), 3193 **Published**

Simple Contrastive Learning in a Self-Supervised Manner for Robust Visual Question Answering

S Yang, L Xiao, X Wu, **Junjie Xu**, L Wang, L He

Computer Vision and Image Understanding 241, 103976 **Published**

Cross-Modal Fine-Grained Alignment and Fusion Network for Multimodal Aspect-Based Sentiment Analysis

Luwei Xiao, Xingjiao Wu, Shuwen Yang, **Junjie Xu**, J Zhou, Liang He

Information Processing & Management 60 (6), 103508 **Published**

Automatic Image Aesthetic Assessment for Human-Designed Digital Images

Y Wan, W Li, X Wu, **Junjie Xu**, J Yang

McGE Workshop · ACM Multimedia 2023 **Published**

BPGG: Bidirectional Prototype Generation and Guidance Network for Few-Shot Anomaly Localization

J Zhang, Z Zhuang, **Junjie Xu**, T Ma, Liang He

ICANN 2022 · 24–36 **Published**

Graph Convolution over the Semantic-Syntactic Hybrid Graph Enhanced by Affective Knowledge for Aspect-Level Sentiment Classification

Junjie Xu, Shuwen Yang, Luwei Xiao, Zhichao Fu, Xingjiao Wu, Tianlong Ma, Liang He

IJCNN 2022 **Published**

PATENTS

All patents filed as co-inventor; publication numbers verifiable on China's patent gazette.

一种基于Kapur阈值法的黑色素瘤皮肤镜图像分割方法

CN 118840378 A · 2024-10-25

一种基于人在回路与视觉基础模型的医学图像增强方法

CN 120298246 A · 2025-07-11

一种基于人在回路中标注样本的医学图像分割方法

CN 118485681 A · 2024-08-13

一种基于偏好传递性的人在回路强化学习数据增强方法

CN 118916133 A · 2024-11-08

一种基于图像多属性建模的美学评估方法

CN 117422962 A · 2024-01-19

一种基于多层次对抗学习的图像质量评估方法

CN 120198411 A · 2025-06-24

一种基于多模态交叉注意力与动态特征融合的音乐生成方法

CN 120316301 A · 2025-07-15

一种基于对抗神经网络的音频驱动图像编辑方法

CN 118524266 A · 2024-08-20

一种基于情感驱动和人类专家反馈的机器行为学习方法

CN 120318634 A · 2025-07-15

一种基于情感驱动的多乐器分离协同音乐生成方法

CN 120319204 A · 2025-07-15

一种基于扩散模型的小样本字体生成方法

CN 118898549 A · 2024-11-05

一种基于有向无环图网络的方面级情感分类方法

CN 116127072 A · 2023-05-16

一种基于注意力图卷积网络的多模态融合机械缺陷检测方法

CN 114170477 A · 2022-03-11

基于人在回路与视觉基础模型的少样本医学图像分割方法

CN 120298698 A · 2025-07-11

RESEARCH PROJECTS

Multimodal Digital Therapeutics **Project Director**

Interdisciplinary Research Project · ECNU · 2024 — 2025 · Rated Excellent

Led a research project on multimodal digital support, emotional experience, and human-centered interaction.

Emotion-Controllable Music-to-Image **Project Director**

Doctoral Research Innovation Fund · ECNU · 2023 · Advised by Liang He

Explored how human feedback and affective intent shape cross-modal music-to-image generation.

EduChat-R1 **Participant**

Open Education Reasoning Model · ECNU · 2025 · Open-source release

Contributed to an open education reasoning model through research, engineering, and open-source collaboration.

HONORS & AWARDS

2025	Kuanrui Talent Scholarship	ECNU School of Computer Science and Technology
2023	Shanghai Outstanding Graduate	Shanghai Municipal Education Commission
2023	National Third Prize · Challenge Cup	China Association for Science and Technology
2022	Huaxin Scholarship	ECNU School of Computer Science and Technology