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Education

2017 Aug.-2025 Feb. **Ph.D.**, Computer Science, The Graduate Center, City University of New York
2017 Aug.-2021 July **M.S.**, Computer Science, The Graduate Center, City University of New York
2014 Aug.-2016 June **M.S.**, Computer Science, Illinois Institute of Technology

Research Experience

Jan. 2025 – Present **Postdoctoral Fellow**, Department of Bioinformatics and Computational Biology, The University of Texas MD Anderson Cancer Center, Houston, TX

- Conducting advanced research on large language models (LLMs) applied to oncology, with a focus on accelerating cancer treatment strategies and drug discovery.
- Developing and implementing deep learning models for automated extraction of actionable insights from biomedical literature, clinical notes, and multi-omics molecular data.
- Collaborating with multidisciplinary teams (including oncologists, bioinformaticians, and clinicians) to translate LLM-driven findings into practical workflows for personalized cancer treatment planning and therapeutic development.

Aug. 2017 – Dec. 2024 **Research Assistant**, Department of Computer Science, The Graduate Center, City University of New York, New York, NY

- Focused on computer vision and machine learning, specializing in model compression, quantization, and efficient inference for resource-constrained environments.
- Developed lightweight full-precision models for diverse tasks; investigated efficient generative models and large language models (LLMs) optimized for hardware-limited devices.

Teaching Experience

2022 Sep.-2024 May Adjunct Lecturer, Department of Computer Science, City College of New York, City University of New York

2022 Jan.-2022 May Adjunct Lecturer, Department of Computer Science, Brooklyn College, City University of New York

Industry Experience

2022 June-2022 Aug. Software Engineer Developer Intern, Amazon
2019 June-2019 Aug. Summer Research Intern, AT&T Labs
2018 May-2018 Aug. Summer Research Intern, Pitney Bowes

Publications

- [1] Chunyu Yuan, Dongfang Zhao, and Sos S. Aгаian. “UCM-NetV2: An efficient and accurate deep learning model for skin lesion segmentation”. In: *Journal of Economy and Technology* 3 (2025), pp. 251–263. ISSN: 2949-9488.
- [2] Chunyu Yuan, Dongfang Zhao, and Sos S Aгаian. “MUCM-Net: a Mamba powered UCM-Net for skin lesion segmentation”. In: *Exploration of Medicine* 5.6 (2024), pp. 694–708.
- [3] Chunyu Yuan, Dongfang Zhao, and Sos S Aгаian. “UCM-Net: A lightweight and efficient solution for skin lesion segmentation using MLP and CNN”. In: *Biomedical Signal Processing and Control* 96 (2024), p. 106573.
- [4] Chunyu Yuan and Sos S Aгаian. “A comprehensive review of binary neural network”. In: *Artificial Intelligence Review* 56.11 (2023), pp. 12949–13013.
- [5] Chunyu Yuan and Sos S Aгаian. “A MIX-decision CNN solution for real-time semantic segmentation on embedded devices”. In: *Multimodal Image Exploitation and Learning 2023*. Vol. 12526. SPIE. 2023, pp. 116–124.
- [6] Chunyu Yuan and Sos S Aгаian. “BiThermalNet: A lightweight network with BNN RPN for thermal object detection”. In: *Multimodal Image Exploitation and Learning 2022*. Vol. 12100. SPIE, 2022, pp. 114–123.

Editorial Board Membership

Informatics for Health and Social Care

Journal and Conference Reviewer

ICLR Workshop MLGenX (2024, 2025, 2026)
ICLR Workshop ES-Reasoning (2026)
CVPR Workshop on Anomaly Detection with Foundation Models (2026)
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) (2026)
IEEE Journal of Biomedical and Health Informatics (2025 – Present, IF: 7.7)
The International Journal of Interactive Multimedia and Artificial Intelligence (2024 – Present, IF: 3.4)
Transactions on Neural Networks and Learning Systems (2024 – Present, IF: 10.4)
Information Fusion (2024 – Present, IF: 14.8)

Scientific Reports (2024 – Present, IF: 3.8)
IEEE Access (2024 – Present, IF: 3.4)
Artificial Intelligence Review (2023 – Present, IF: 10.7)
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) (2023 – Present, IF: 8.4)
Journal of Big Data (2023 – Present, IF: 8.6)
Journal of Real-Time Image Processing (2023 – Present, IF: 2.9)