

Jiantong Zhao

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Personal Profile

AI Researcher with a proven track record of making well-informed and impartial decisions on intricate real-world challenges. Proficient in effectively communicating complex concepts, ideas, and findings through both oral presentations and technical reports. Possesses a global perspective and an innovative mindset.

Education

2023 - Present: Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE

Master of Science in Computer Vision

Full sponsorship, due to graduate in May 2025

Skills, knowledge, and competencies include:

- **Proficient in computer vision:** Demonstrate expertise in computer vision, leveraging mathematical and computational principles to develop cutting-edge solutions;
- **Multidisciplinary integration:** Innovatively integrates knowledge from diverse fields to generate novel ideas;
- **Advanced problem-solving:** Applies advanced problem-solving skills to analyze, design, and execute solutions for existing and new challenges in computer vision and other AI domains;
- **Project management:** Successfully initiates, manages, and completes multifaceted AI projects;
- **Adaptability:** Thrives both independently and as a team member in addressing research or development problems under complex and unpredictable real-world conditions;
- **Ethical awareness:** Recognizes the legal, ethical, environmental, and socio-cultural implications of AI technologies.

Key subject areas:

- Research Communication and Dissemination
- Visual Object Recognition and Detection
- Advanced Natural Language Processing
- Advanced 3D Computer Vision
- Geometry for Computer Vision
- Advanced Machine Learning

2019 - 2023: Tsinghua University, Beijing, China

Bachelor of Engineering

Key subject areas:

- Calculus
- Programming Languages
- Computer Architecture
- Principles of Automatic Control
- Probability & Statistics
- Data Structures & Algorithms
- Computer Networks
- Linear Algebra

Specialization in Intelligent Systems:

- Pattern Recognition and Machine Learning
- Fundamentals of Artificial Intelligence
- Robotics and Artificial Intelligence
- Deep Learning

Internship Experience

2022 (Semester 6): Washington University, Seattle, USA

10 Months Summer Research in the Theme of AIGC Directed by Associate Prof. Sheng Wang

- Combined VAE with transformer for image serialization representation.
- Finished prediction and generation of mouse gene expression images under zero/few-shot.

Research Projects

2021 Summer: Tsinghua University, Beijing, China

3 Months Undergraduate Research Project Directed by Associate Prof. Jiwen Lu

- Designed and implemented an image super-resolution deep network.
- Optimized the implement of look-up table and tetrahedral interpolation to lightweight and speed up.

2023 – Present: Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE

Long-Term Research Supervised by Associate Prof. Hao Li

- A Member of the Metaverse Lab
- Reconstruct a moving 3D Rigid Object Using video from a monocular camera.

Work Experience

2021 - 2023: Xinhuanjing (Beijing) Technology Co., Ltd.

- Supervisor & Researcher
- Urban Smart Transportation Project

Skills and Competencies

Python, C, C++, Java, Pytorch, Tensorflow, MATLAB, Unity

Languages: English & Mandarin

Achievements

2020 - 2022 Director of the Training and Learning Sector of the Department of Automation, Tsinghua University

2019 Won the second prize in Tsinghua Smart Car Design Competition 'Dynamic chip' Program.

Interests

- Novel View Synthesis
- 3D Reconstruction
- AI-Generated Content
- Multi-Modal Machine Learning
- Swimming
- Badminton

References

Hao Li

Supervisor

Mohamed bin Zayed University of Artificial Intelligence

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Kun Zhang

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