Xuan JU

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EDUCATION

- **The Chinese University of Hong Kong** — Hong Kong SAR, China
  Ph.D. candidate in Computer Science and Engineering. Supervisor: Prof. Qiang Xu — 2022 – 2026 (Expected)

- **Tongji University** — Shanghai, China
  B.S. in Computer Science; Minor Degree in Mathematics and Applied Mathematics;
  GPA: 4.85/5.00. Top 1%. — 2018 – 2022

PUBLICATIONS

(* denotes equal contribution)

- **Direct Inversion: Boosting Diffusion-based Editing with 3 Lines of Code**
  <u>Xuan Ju</u>, Ailing Zeng, Yuxuan Bian, Shaoteng Liu, Qiang Xu
  International Conference on Learning Representations (**ICLR**), 2024.

- **HumanSD: A Native Skeleton-Guided Diffusion Model for Human Image Generation**
  <u>Xuan Ju</u>*, Ailing Zeng*, Chenchen Zhao*, Jianan Wang, Lei Zhang, Qiang Xu
  Proceedings of the IEEE International Conference on Computer Vision (**ICCV**), 2023. **(Oral Presentation)**

- **Human-Art: A Versatile Human-Centric Dataset Bridging Natural and Artificial Scenes**
  <u>Xuan Ju</u>*, Ailing Zeng*, Jianan Wang, Qiang Xu, Lei Zhang
  IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023.

- **DeciWatch: A Simple Baseline for 10x Efficient 2D and 3D Pose Estimation**
  Ailing Zeng, <u>Xuan Ju</u>, Lei Yang, Ruiyuan Gao, Xizhou Zhu, Bo Dai, Qiang Xu
  European Conference on Computer Vision (**ECCV**), 2022.

- **Smoothnet: A plug-and-play network for refining human poses in videos**
  Ailing Zeng, Lei Yang, <u>Xuan Ju</u>, Jiefeng Li, Jianyi Wang, Qiang Xu
  European Conference on Computer Vision (**ECCV**), 2022.

WORKING EXPERIENCE

- **Tencent ARC Laboratory** — Shenzhen, China
  Research Intern. Supervisor: Ying Shan, Xintao Wang — Oct. 2023 - Dec. 2023
  Topic: Controllable Image Generation

- **International Digital Economy Academy (IDEA) CVR Laboratory** — Shenzhen, China
  Research Intern. Supervisor: Lei Zhang, Ailing Zeng — Jun. 2022 - Sep. 2023
  Topic: Human-Centric Image Generation

- **SenseTime Research X-Lab** — Shenzhen, China
  Research Intern. Supervisor: Lei Yang — Dec. 2021 - May. 2022
  Topic: Human Pose Estimation

MISCELLANEOUS

- **Research Interests:** Computer Vision, Generative Modeling, Image Generation, Human Pose Estimation
- **Conference Reviewer:** CVPR (2024), ICCV (2023), NeurIPS (2023).

SELECTED HONORS & AWARDS

- **National Scholarship** — 2020, 2021
- **QiDi Scholarship** — 2022
- **Outstanding Graduate, Shanghai Province** — 2022
- **First Prize in "Challenge Cup" National College Students Contest** — 2022