Yujin Chen

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Education

- **Wuhan University, State Key Lab of LIESMARS** — Wuhan, China
  M.E. in Cartography and Geographic Information Engineering — *Sep. 2018 – Jun. 2021*
- **Wuhan University, School of Geodesy and Geomatics** — Wuhan, China
  B.E. in Geomatics Engineering; GPA: 3.71/4.0 (Top 5% in 310 students) — *Sep. 2014 – Jun. 2018*
- **Israel Institute of Technology (Technion), Faculty of Electrical Engineering** — Haifa, Israel
  Full Scholarship Exchange Student: Specialize in Machine Learning — *Jul. 2018 – Aug. 2018*

Publications

1. Yujin Chen, Zhigang Tu, Ruizhi Chen, Junsong Yuan, "Interactive Hand-Object 3D Shape Reconstruction from a Single Image", under review.
2. Yujin Chen, Zhigang Tu, Liuhao Ge, Dejun Zhang, Ruizhi Chen, Junsong Yuan, "SO-HandNet: Self-Organizing Network for 3D Hand Pose Estimation with Semi-supervised Learning", The IEEE International Conference on Computer Vision (ICCV'19).
3. Yujin Chen, Ruizhi Chen, Mengyun Liu, Aoran Xiao, Dewen Wu, Shuheng Zhao, "Indoor Visual Positioning Aided by CNN-Based Image Retrieval: Training-Free, 3D Modeling-Free", Sensors, 2018.
4. Mengyun Liu, Ruizhi Chen, Deren Li, Yujin Chen, Guangyi Guo, Zhipeng Cao, Yuanjing Pan, "Scene recognition for indoor localization using a multi-sensor fusion approach", Sensors, 2017.

Research Experience

- **3D Human/Hand Shape Reconstruction — Tencent AI Lab** — Shenzhen, China
  Research Intern — *Dec. 2019 - Present*
  - Currently designing algorithm to recover 3D shape of human/hand from monocular image.
- **Hand-object 3D Shape Reconstruction — University at Buffalo** — Buffalo, NY, U.S.
  Research Assistant, Advisor: Prof. Junsong Yuan — *Jul. 2019 - Nov. 2019*
  - Designed algorithm to reconstruct 3D shape from hand-object interaction image.
- **Depth-based Hand Pose Estimation — Wuhan University** — Wuhan, China
  Research Assistant, Advisor: Prof. Zhigang Tu — *Sep. 2018 - Present*
  - Proposed SO-HandNet aims at making use of the unannotated data to obtain accurate 3D hand pose estimation in a semi-supervised manner.
- **Indoor Visual Positioning — Wuhan University** — Wuhan, China
  Research Assistant, Advisor: Prof. Ruizhi Chen — *Jan. 2017 - Jul. 2018*
  - Proposed a novel method for indoor visual positioning aided by CNN-based image retrieval.

Programming Skills

Pytorch, Tensorflow, Python, C++/C, Matlab, C#, Android/Java, R, LaTeX

Academic Services

Teaching Assistant, University at Buffalo
Coursera: Computer Vision Specialization — *Summer 2019*