

Yujin Chen

Homepage: <https://sites.google.com/view/yjchen>

Email : yujin.chen@whu.edu.cn

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
Exchange Student; Summer School of Engineering and Science; Specialize in Machine Learning Jul. 2018 – Aug. 2018

RESEARCH EXPERIENCE

- **Visual Computing Lab, University at Buffalo** Buffalo, NY, U.S.
Research Assistant, Advisor: Prof. Junsong Yuan Jul. 2019 – Nov. 2019
 - **Hand-Centric Parsing:** Hand Pose and Shape Estimation; 3D pose and shape prediction from hand-object interaction image.
- **LIESMARS Vision Lab, Wuhan University** Wuhan, China
Research Assistant, Advisor: Prof. Zhigang Tu Sep. 2018 – Present
 - **Depth-based 3D Hand Pose Estimation:** Proposed SO-HandNet aims at making use of the unannotated data to obtain accurate 3D hand pose estimation in a semi-supervised manner.
Accept by International Conference on Computer Vision (ICCV'19).
- **Ubiquitous Navigation Lab, Wuhan University** Wuhan, China
Research Assistant, Advisor: Prof. Ruizhi Chen Jan. 2017 – Jul. 2018
 - **Image Geo-localization based on Image Retrieval:** Developed a novel method for indoor visual positioning aided by CNN-based image retrieval.
Accept by Sensors (SCI journal, 2018 Impact Factor:3.031).
 - **Scene Constrained Method for Indoor Localization:** Developed a multi-sensor fusion method which is implemented on a smartphone including cameras, Wi-Fi and inertial sensors.
Co-author paper accept by Sensors.
- **National Undergraduate Research Project, Wuhan University** Wuhan, China
Research Team Leader, Advisor: Prof. Yingbing Li Mar. 2016 – Sep. 2017
 - **Modeling, Evaluation and Analysis of Real Estate Data in Wuhan:** Built real estate appraisal model using Neural Network.
*Led a team of 5 members and the project which was evaluated as **Excellent**;
Accept by a Chinese journal.*

PUBLICATIONS

- **Human-Centric Parsing:**
SO-HandNet: Self-Organizing Network for 3D Hand Pose Estimation with Semi-supervised Learning.
Yujin Chen, Zhigang Tu, Liuhao Ge, Dejun Zhang, Ruizhi Chen, Junsong Yuan.
Proc. International Conference on Computer Vision (ICCV'19).
- **Image Geo-localization & Indoor Scene Understanding:**
Indoor Visual Positioning Aided by CNN-Based Image Retrieval: Training-Free, 3D Modeling Free.
Yujin Chen, Ruizhi Chen, Mengyun Liu, Aoran Xiao, Dewen Wu, Shuheng Zhao.
Sensors, 2018.
Scene recognition for indoor localization using a multi-sensor fusion approach.
Mengyun Liu, Ruizhi Chen, Deren Li, **Yujin Chen**, Guangyi Guo, Zhipeng Cao, Yuanjing Pan.
Sensors, 2017.
An indoor positioning system based on static objects in large indoor scenes by using smartphone cameras.
Aoran Xiao, Ruizhi Chen, Deren Li, **Yujin Chen**, Dewen Wu.
Sensors, 2018.

AWARDS AND HONORS

Research Abroad Scholarship (top 1%) , State key Lab of LIESMARS	<i>2019</i>
LIESMARS Freshman Scholarship (top 3%) , State key Lab of LIESMARS	<i>2018</i>
National Endeavor Scholarship (top 3%) , Ministry of Education of China	<i>2015, 2016, 2017</i>
Outstanding Bachelor Thesis award , Wuhan University	<i>2018</i>
Outstanding Graduate (top 5%) , Wuhan University	<i>2018</i>
Postgraduate Freshman Scholarship(top 10%) , Wuhan University	<i>2018</i>
Merit Student Honor (top 10%) , Wuhan University	<i>2016, 2017</i>

PROGRAMMING SKILLS

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

ACADEMIC SERVICES

Teaching Assistant

Coursera: Computer Vision Specialization

Summer 2019