

# Congcong (Rachel) Jin

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## Education

<b>University of California, Irvine</b>	<b>09/2019 – 12/2020 (Expected)</b>
M.S. in Computer Science, Donald Bren School of Information and Computer Sciences	
<b>Rochester Institute of Technology</b>	<b>09/2018 – 11/2018</b>
Visiting Student, B. Thomas Golisano College of Computing & Information Sciences	
<b>Xi'an Jiaotong University</b>	<b>09/2016 – 06/2019</b>
M.S. in Software Engineering, School of Software (Ranking: 2/95)	

## Technical Skills

- **Programming Languages:** Java, C/C++, Python, MATLAB, JavaScript and HTML
- **Operating Systems:** Linux, Mac and Windows
- **Deep Learning Framework:** PyTorch, TensorFlow, MXNet

## Project Experiences

<b>Customer Relationship Management System (Team Leader)</b>	<b>04/2014</b>
<ul style="list-style-type: none"><li>○ Developed a system to efficiently manage information of personnel, transactions and commodities</li><li>○ Techniques employed: Browser/Server development mode, Tomcat, Java Database Connectivity (JDBC), MySQL, Servlet, JavaScript and HTML</li></ul>	
<b>Library Information Management System (Team Leader)</b>	<b>12/2013</b>
<ul style="list-style-type: none"><li>○ Implemented a system to manage information of readers, books, book borrowing and users</li><li>○ Techniques applied: JavaScript, JQuery, MySQL, Model, View and Controller architecture, JDBC and et al.</li></ul>	

## Research Experiences

<b>Few-shot Human Action Prediction</b>	<b>09/2018 – 11/2018</b>
Introduced few-shot learning into action prediction; proposed relationship networks for accurate classification; designed a non-decreasing margin based triplet loss to make early predictions	
<b>Multi-view Point Cloud Registration</b>	<b>05/2017 – 03/2018</b>
Proposed a matrix completion method to provide informative knowledge; designed a probability function for relative motions; improved multi-view registration based on $L_1$ norm and matrix decomposition	
<b>Pair-wise Point Cloud Registration</b>	<b>09/2016 - 04/2017</b>
Introduced hard assignment into registration to exclude outliers; designed a probability function for established correspondences; proposed an Iterative Closest Point variant to acquire the rigid transformation	

## Internship

<b>Action Recognition and Pose Estimation for Classroom Students</b>	
<i>CVTE Co., Ltd</i>	<b>02/2019 – 05/2019</b>
<ul style="list-style-type: none"><li>○ Applied optical flow theory to differentiate the transition between different actions</li><li>○ Improved and boosted existing networks and trained them for pose recognition</li><li>○ Introduced people detection and tracking theories to analyze each student's poses</li></ul>	

## Publications

- **Congcong Jin**, Jihua Zhu, Yaochen Li and et al. Multi-view Registration Based on Weighted Low Rank and Sparse Matrix Decomposition of Motions. IET Computer Vision, 13 (2019): 376–384.
- Jihua Zhu, **Congcong Jin**, Zutao Jiang and et al. Robust Point Cloud Registration Based on Both Hard and Soft Assignments. Optics & Laser Technology, 110: 202–208.
- Yiqiong Zhou, Siyu Xu, **Congcong Jin**, Ziyi Guo. Multiple Point Sets Registration Based on Expectation Maximization Algorithm. Computers and Electrical Engineering, 70 (2018): 1–11.
- Zutao Jiang, Jihua Zhu, **Congcong Jin**, Siyu Xu and et al. Simultaneously Merging Multi-robot Grid Maps at Different Resolutions. Multimedia Tools and Applications, 2019: 1–20.
- Jihua Zhu, Di Wang, Xiuxiu Bai, Huimin Lu, **Congcong Jin** and et al. Registration of Point Clouds Based on the Ratio of Bidirectional Distances, International Conference on 3D Vision, pp. 102–107.