

# Weijian Xu

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CONTACT INFORMATION	Computer Science and Engineering 9500 Gilman Drive, La Jolla, CA 92093	<i>Phone:</i> +1 (858) 888-6347 <i>E-mail:</i> wex041@eng.ucsd.edu <i>Site:</i> <a href="https://weijianxu.com">https://weijianxu.com</a>
RESEARCH INTERESTS	Deep Learning and Computer Vision	
EDUCATION	<b>University of California San Diego</b> , La Jolla, CA <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none"><li>• Advisor: Zhuowen Tu</li></ul>	<b>2018-Present</b>
	<b>University of California San Diego</b> , La Jolla, CA <i>M.S. in Computer Science</i> <ul style="list-style-type: none"><li>• Overall GPA: 3.97/4.00</li><li>• AI track GPA: 4.00/4.00</li></ul>	<b>2016-2018</b>
	<b>Beihang University</b> , Beijing, China <i>B.E. in Computer Science</i> <ul style="list-style-type: none"><li>• Selected into Honors College</li><li>• Overall GPA: 3.88/4.00</li></ul>	<b>2012-2016</b>
RESEARCH EXPERIENCE	<b>Facebook AI Applied Research</b> , Menlo Park, CA <i>Research Intern</i> , Mentor: Tamara Berg Developed a robust fashion representation for instance retrieval task by restoring deformed instances and masking occluded features.	<b>2019</b>
	<b>Microsoft Research Asia</b> , Beijing, China <i>Research Intern</i> , Mentor: Jingdong Wang Developed a few-shot learning algorithm by applying task-dependent disentangled feature transformation into feature embedding.	<b>2018</b>
	<b>University of California San Diego</b> , La Jolla, CA <i>Graduate Research Assistant</i> , Mentor: Zhuowen Tu <ul style="list-style-type: none"><li>– Developed a geometry-aware skeleton detection method with a weighted Hausdorff distance and a geometrically weighted cross-entropy loss. This work is accepted by BMVC 2019.</li><li>– Developed the Wasserstein introspective neural network and applied it to 2D and 3D generative models. Related works are accepted by CVPR 2018 and AAAI 2019.</li></ul>	<b>2017-2019</b>
	<b>Tsinghua University</b> , Beijing, China <i>Undergraduate Research Assistant</i> , Mentor: Jiwu Shu Developed a distributed in-memory file system with non-volatile memory and RDMA support.	<b>2015-2016</b>
PUBLICATIONS	<ol style="list-style-type: none"><li>5. Zheng Ding, Yifan Xu, <b>Weijian Xu</b>, Gaurav Parmar, Yang Yang, Max Welling and Zhuowen Tu. Guided Variational Auto-Encoder for Disentanglement Learning. In <i>IEEE/CVF Computer Vision and Pattern Recognition (CVPR)</i>, 2020.</li><li>4. <b>Weijian Xu</b>, Gaurav Parmar and Zhuowen Tu. Geometry-Aware End-to-End Skeleton Detection. In <i>British Machine Vision Conference (BMVC)</i>, 2019.</li></ol>	

3. Wenlong Huang\*, Brian Lai\*, **Weijian Xu** and Zhuowen Tu. 3D Volumetric Modeling with Introspective Neural Networks. In *the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
2. Kwonjoon Lee, **Weijian Xu**, Fan Fan and Zhuowen Tu. Wasserstein Introspective Neural Networks. In *IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Oral**).
1. **Weijian Xu** and Jingdong Wang. Task-Dependent Disentangled Feature Transformation for Few-shot Learning. In submission.

AWARDS	GSA Travel Grant in UC San Diego	<b>2018</b>
	National Scholarship of China	<b>2015</b>
	Run Corporation Scholarship	<b>2015</b>
	Honorable Prize in the Interdisciplinary Contest in Modeling	<b>2015</b>
	First Prize Scholarship for Freshman in Beihang University	<b>2012</b>
TEACHING EXPERIENCE	<b>Teaching Assistant</b> , University of California San Diego COGS 118A - Supervised Machine Learning Algorithms	<b>Winter 2020</b>
	<b>Teaching Assistant</b> , University of California San Diego COGS 181 - Neural Networks and Deep Learning	<b>Spring 2019</b>
	<b>Teaching Assistant</b> , University of California San Diego COGS 118A - Introduction to Machine Learning I	<b>Winter 2018</b>
PROFESSIONAL ACTIVITY	Reviewer:	
	<ul style="list-style-type: none"> <li>• AAAI, CVPR, ECCV.</li> <li>• CVPR, ICCV.</li> </ul>	<b>2020</b> <b>2019</b>
MISC.	Languages and Frameworks: Python, C/C++, PyTorch, TensorFlow. Development Environment: Linux/Unix, macOS and Windows. Fluent in English and Chinese.	