

Weijian Xu

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> https://weijianxu.com
RESEARCH INTERESTS	Deep Learning and Computer Vision	
EDUCATION	University of California San Diego , La Jolla, CA <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none">• Advisor: Zhuowen Tu	2018-Present
	University of California San Diego , La Jolla, CA <i>M.S. in Computer Science</i> <ul style="list-style-type: none">• Overall GPA: 3.97/4.00• AI track GPA: 4.00/4.00	2016-2018
	Beihang University , Beijing, China <i>B.E. in Computer Science</i> <ul style="list-style-type: none">• Selected into Honors College• Overall GPA: 3.88/4.00	2012-2016
RESEARCH EXPERIENCE	Facebook AI Applied Research , 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.	2019
	Microsoft Research Asia , 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.	2018
	University of California San Diego , La Jolla, CA <i>Graduate Research Assistant</i> , Mentor: Zhuowen Tu <ul style="list-style-type: none">– 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.– 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.	2017-2019
	Tsinghua University , Beijing, China <i>Undergraduate Research Assistant</i> , Mentor: Jiwu Shu Developed a distributed in-memory file system with non-volatile memory and RDMA support.	2015-2016
PUBLICATIONS	<ol style="list-style-type: none">6. Weijian Xu, Gaurav Parmar and Zhuowen Tu. Geometry-Aware End-to-End Skeleton Detection. In <i>British Machine Vision Conference (BMVC)</i>, 2019.5. Wenlong Huang*, Brian Lai*, Weijian Xu and Zhuowen Tu. 3D Volumetric Modeling with Introspective Neural Networks. In <i>the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)</i>, 2019.	

4. Kwonjoon Lee, **Weijian Xu**, Fan Fan and Zhuowen Tu. Wasserstein Introspective Neural Networks. In *IEEE/CVF Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Oral**).
3. **Weijian Xu** and Jingdong Wang. Task-Dependent Disentangled Feature Transformation for Few-shot Learning. In submission.
2. Yuezhou Sun, Haoming Zhang, **Weijian Xu**, Heidi Cheng, Raimondas Kiveris, Feng Han and Zhuowen Tu. Detecting Line Segments as Objects. In submission.
1. Zheng Ding, Yifan Xu, **Weijian Xu**, Gaurav Parmar, Yang Yang, Max Welling and Zhuowen Tu. Guided Variational Auto-Encoder for Disentanglement Learning. In submission.

AWARDS	GSA Travel Grant in UC San Diego	2018
	National Scholarship of China	2015
	Run Corporation Scholarship	2015
	Honorable Prize in the Interdisciplinary Contest in Modeling	2015
	First Prize Scholarship for Freshman in Beihang University	2012
TEACHING EXPERIENCE	Teaching Assistant , University of California San Diego COGS 181 - Neural Networks and Deep Learning	Spring 2019
	Teaching Assistant , University of California San Diego COGS 118A - Introduction to Machine Learning I	Winter 2018
PROFESSIONAL ACTIVITY	Reviewer:	
	• IEEE/CVF Conference on Computer Vision and Pattern Recognition	2020
	• AAAI Conference on Artificial Intelligence	2020
	• IEEE/CVF International Conference on Computer Vision	2019
	• IEEE/CVF Conference on Computer Vision and Pattern Recognition	2019
MISC.	Languages and Frameworks: Python, C/C++, PyTorch, TensorFlow.	
	Development Environment: Linux/Unix, macOS and Windows.	
	Fluent in English and Chinese.	