

TINGWU WANG

Machine Learning Group, University of Toronto,
Vector Institute and NVIDIA

<http://www.cs.toronto.edu/~tingwuwang/>

tingwuwang@cs.toronto.edu Curriculum Vitae, Feb. 9th, 2020

EDUCATION



University of Toronto, Ontario, Canada

PhD student of Computer Science

Jan. 2018 - Now

Advisor: Prof. Sanja Fidler and Prof. Jimmy Ba

Master of Computer Science

Jul. 2016 - Jan. 2018

Advisor: Prof. Sanja Fidler

GPA: 4.00/4.00



Tsinghua University, Beijing, China

Bachelor of Electronic Engineering

Aug. 2012 - Jul. 2016

GPA: 91.1/100



Technische Universität München, Bavaria, Germany

Exchange student in Department of Informatics

Aug. 2014 - Feb. 2015

PUBLICATIONS, PREPRINTS AND PATENTS

Tingwu Wang, Xuchan Bao, Ignasi Clavera, Jerrick Hoang, Yeming Wen, Eric Langlois, Shunshi Zhang, Guodong Zhang, Pieter Abbeel, Jimmy Ba, *Benchmarking Model-Based Reinforcement Learning*, Arxiv 2019.

Tingwu Wang, Jimmy Ba, *Exploring Model-based Planning with Policy Networks*, International Conference on Learning Representations (ICLR'20).

Tingwu Wang*, Henry Zhou*, Sanja Fidler, Jimmy Ba, *Neural Graph Evolution: Towards Efficient Automatic Robot Design*, International Conference on Learning Representations (ICLR'19).

Tingwu Wang*, Renjie Liao*, Jimmy Ba, Sanja Fidler, *NerveNet: Learning Structured Policy with Graph Neural Networks*, International Conference on Learning Representations (ICLR'18).

Xavier Puig, Kevin Ra, Marko Boben, Jiaman Li, **Tingwu Wang**, Sanja Fidler, Antonio Torralba, *VirtualHome: Simulating Household Activities via Programs*, Conference on Computer Vision and Pattern Recognition (CVPR'18) (Oral).

Tingwu Wang, Chunxiao Jiang and Yong Ren, *Access Points Selection in Super WiFi Network Powered by Solar Energy Harvesting*, IEEE Wireless Communications and Networking Conference (WCNC'16).

Tingwu Wang, Jinjin Wang, Chunxiao Jiang, Jian Wang and Yong Ren, *Access Strategy in Energy Harvesting Super WiFi Network: A POMDP Method*, IEEE 83rd Vehicular Technology Conference, 2016 (VTC'16).

Qiu Shi, Po Man Cheng, **Tingwu Wang**, Yan Xia and Wei Zhang, *Costume Detection and Attribute Value Identification Method and System*, Patent: CN105447529 A, 2016.

RESEARCH AND WORK EXPERIENCE

NVIDIA

Research Intern
Character Animation

May. 2019 -
Advisors: Prof. Sanja Fidler
Toronto

MMLAB

Visiting Research Assistant
Object detection and retrieval

Jul. 2015 - Sep. 2015
Advisors: Prof. Xiaoou Tang, Prof. Chen Change Loy
Hong Kong

SenseTime Limited	<i>May. 2015 - Mar. 2016</i>
Research Engineer	Advisor: Dr. Yan Xia
Object retrieval and fashion recommendation	Beijing
NGN Lab	<i>Dec. 2015 - Aug. 2016</i>
Research Assistant	Advisor: Prof. Xing Li
Wireless IoT, IPv6, IVI, 6-over-4 tunnel	Beijing
Complex Systems Lab	<i>May. 2014 - Aug. 2015</i>
Research Assistant	Advisor: Prof. Yong Ren, Prof. Chunxiao Jiang
Sequential decision process and POMDP	Beijing
Institute of Circuits and Systems	<i>Sep. 2013 - Feb. 2014</i>
Research Assistant	Advisor: Prof. Fei Qiao.
Vision based robotic control	Beijing

SKILLS

Spoken Language:	English (Fluent); German (Entry); Mandarin (Native); Hunanese (Native)
Programming Languages:	C++, Matlab, Python, Verilog, Java, Bash, Cython, Javascript
Project Experiences:	Ubuntu, Raspbian, OpenWrt, Tensorflow, PyTorch, Caffe, CUDA, Django.

AWARDS AND HONORS

ICLR Travel Award, Sixth International Conference on Learning Representations	<i>Feb. 2018</i>
University of Toronto Fellowship, Faculty of Arts and Science	<i>Oct. 2016 and 2017</i>
University of Toronto Tuition Fellowship, Faculty of Arts and Science	<i>Oct. 2016 and 2017</i>
Outstanding Technical Innovation Award - Alumni Scholarship, Tsinghua University	<i>Oct. 2014</i>
Intel-University Joint Research Award, Intel	<i>Sept. 2014</i>
Third Prize of Challenge Cup of Tsinghua University	<i>Sept. 2014</i>
Meritorious Prize in the University Physics Competition, Beijing, China (top 1%)	<i>Dec. 2013</i>
Meritorious Prize in DS-AI Designing Competition, Tsinghua University	<i>Feb. 2013</i>
Zheng-Geru Alumni Scholarship, Tsinghua University	<i>Dec. 2012</i>
Outstanding Freshmen Scholarship, Tsinghua University (top 5%)	<i>Oct. 2012</i>

SERVICES

Conference Reviewer	<i>2016 - Now</i>
ICLR, ICML, NeurIPS, SIGGRAPH, AAAI, UAI	
Vice-President of the Society for Science and Technology	<i>Oct. 2015 - Oct. 2016</i>
Department of Electronic Engineering, Tsinghua University	
Team Lead of the Computer Vision Development Group	<i>Jun. 2013 - June. 2015</i>
Electronic Design Contest Development Committee	

TEACHING

Department of Computer Science, University of Toronto:	
Teaching Assistant for CSC 420, Image Understanding	<i>Fall Semester, 2016</i>
Teaching Assistant for CSC 320, Introduction to Visual Computing	<i>Winter Semester, 2017</i>
Teaching Assistant for CSC 411, Introduction to Machine Learning	<i>Fall Semester, 2017</i>
Teaching Assistant for CSC 411, Machine Learning and Data Mining	<i>Winter Semester, 2018</i>
Teaching Assistant for CSC 2541, Deep Reinforcement Learning	<i>Fall Semester, 2018</i>
Teaching Assistant for CSC 2621, Reinforcement Learning in Robotics	<i>Winter Semester, 2020</i>