TINGWU WANG

Research Scientist at Nvidia Animation

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EDUCATION

	University	of To	ronto,	Ontario,	Canada
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PhD in Computer Science Jan. 2018 - June 2022

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 GPA: 91.1/100

Aug. 2012 - Jul. 2016

Aug. 2014 - Feb. 2015

Technische Universität München, Bavaria, Germany

Exchange student in Department of Informatics

PUBLICATIONS, PREPRINTS AND PATENTS

Tingwu Wang, Yunrong Guo, Kevin Xie, Xue Bin Peng, Sanja Fidler, *GraphCon: Physics-based Animation with Varying Skeleton Graphs*, Arxiv, 2022.

Kevin Xie, **Tingwu Wang**, Umar Iqbal, Yunrong Guo, Sanja Fidler, Florian Shkurti, *Physics-based Human Motion Estimation and Synthesis from Videos*, International Conference on Computer Vision, ICCV, 2021.

Tingwu Wang, Yunrong Guo, Maria Shugrina, Sanja Fidler, *UniCon: Universal Neural Controller For Physics-based Character Motion*, Arxiv 2020.

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

Jiaman Li, Yihang Yin, Hang Chu, Yi Zhou, **Tingwu Wang**, Sanja Fidler, Hao Li, *Learning to Generate Diverse Dance Motions with Transformer*, Arxiv 2020.

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*, 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** Mar. 2022 -Research Scientist Nvidia Animation Team **NVIDIA** Oct. 2020 - Mar. 2022 Research Scientist at Toronto AI Lab Mentor: Prof. Sanja Fidler **NVIDIA** May 2019 - Oct. 2020 Student Research Intern at Toronto AI Lab Mentor: Prof. Sanja Fidler **MMLAB** Jul. 2015 - Sep. 2015 Mentor: Prof. Xiaoou Tang, Prof. Chen Change Loy Visiting Research Assistant May. 2015 - Mar. 2016 SenseTime Limited Research Engineer Mentor: Dr. Yan Xia NGN Lab Dec. 2015 - Aug. 2016 Research Assistant Advisor: Prof. Xing Li May. 2014 - Aug. 2015 Complex Systems Lab Research Assistant Advisor: Prof. Yong Ren, Prof. Chunxiao Jiang Institute of Circuits and Systems & Intel Sep. 2013 - Feb. 2014 Research Assistant Advisor: Prof. Fei Qiao SKILLS C++, Matlab, Python, Verilog, Java, Bash, Cython, Javascript Programming Languages: Project Experiences: Ubuntu, Raspbian, OpenWrt, Tensorflow, PyTorch, Caffe, CUDA, Django. SERVICES 2016 - Now Reviewer for ICLR, ICML, NeurIPS, SIGGRAPH, AAAI, UAI, ICCV, ECCV Teaching Department of Computer Science, University of Toronto: Teaching Assistant for CSC 420, Image Understanding Fall Semester, 2016 Teaching Assistant for CSC 320, Introduction to Visual Computing Winter Semester, 2017 Teaching Assistant for CSC 411, Introduction to Machine Learning Fall Semester, 2017 Teaching Assistant for CSC 411, Machine Learning and Data Mining Winter Semester, 2018 Teaching Assistant for CSC 2541, Deep Reinforcement Learning Fall Semester, 2018

Winter Semester, 2020

Teaching Assistant for CSC 2621, Reinforcement Learning in Robotics