Tongzhou **Wang**

✉ tongzhou.wang.1994@gmail.com | ⌂ ssnl.github.io | Google Scholar | SsnL

Education

Massachusetts Institute of Technology *Cambridge, MA*
PHD CANDIDATE AT MIT CSAIL *Feb. 2019 - PRESENT*
- Working on understanding the power and limit of deep learning models, and building more generalizable and intelligent systems.
- Advised by Phillip Isola and Antonio Torralba.

University of California, Berkeley *Berkeley, CA*
B.A. IN COMPUTER SCIENCE AND STATISTICS *Aug. 2013 - May 2017*
- GPA: 3.90/4.00. Technical GPA: 3.98/4.00.
- Machine learning research projects with Stuart Russell, Ren Ng, Alexei Efros.

Employments

Facebook AI Research (FAIR) *New York, NY*
FRAMEWORK ENGINEER *Aug. 2017 - Jan. 2019*
- Core contributor to PyTorch, a deep learning framework with dynamic computation graph.
- Worked on linear algebra and spectral operators, machine learning layers, autograd, data loading, etc.

Grue, Inc. *Berkeley, CA*
CO-FOUNDER *Mar. 2015 - Aug. 2015*
- Mobile platform that helps students easily explore and sign up for events, provides check-in via QR code, and gathers statistics for organizers.

Publications

Understanding Contrastive Representation Learning through Alignment and Uniformity on the Hypersphere
TONGZHOU WANG, PHILLIP ISOLA
- International Conference on Machine Learning 2020 [ICML 2020].
- ⌸ Code Project Page arXiv

Rewriting a Deep Generative Model
DAVID BAU, STEVEN LIU, TONGZHOU WANG, JUN-YAN ZHU, ANTONIO TORRALBA
- European Conference on Computer Vision 2020 [ECCV 2020].
- ⌸ Code Project Page arXiv

Diverse Image Generation via Self-Conditioned GANs
STEVEN LIU, TONGZHOU WANG, DAVID BAU, JUN-YAN ZHU, ANTONIO TORRALBA
- Conference on Computer Vision and Pattern Recognition 2020 [CVPR 2020].
- ⌸ Code Project Page arXiv

Dataset Distillation
TONGZHOU WANG, JUN-YAN ZHU, ANTONIO TORRALBA, ALEXEI EFROS
- ⌸ Code Project Page arXiv

Meta-Learning MCMC Proposals
TONGZHOU WANG, YI WU, DAVID MOORE, STUART RUSSELL
- Conference on Neural Information Processing Systems 2018 [NeurIPS 2018].
- Oral presentation at ICML 2017 AutoML workshop.
- ⌸ arXiv

Learning to Synthesize a 4D RGBD Light Field from a Single Image [ICCV 2017] [arXiv]
PRATUL SRINIVASAN, TONGZHOU WANG, ASHWIN SREELAL, RAVI RAMAMOORTHI, REN NG
- International Conference on Computer Vision 2017 [CVPR 2020].
- ⌸ Code arXiv

Selected Projects

Improved Training of Cycle-Consistent Adversarial Networks

Tongzhou Wang with Yihan Lin and the research group of Alexei Efros

May 2017

- ⬈ Report Slides

Modeling Punctuations in Online Reviews

Tongzhou Wang

Nov. 2016

- ⬈ Report Poster

Academic Services

Reviewer   ICML 2020 (Top Reviewer), NeurIPS 2020.

Skills

Languages   Python, C, C++, C#, F#, JAVA, Scala, Swift, MATLAB, R, Ruby, PHP, JavaScript, HTML, CSS, LaTeX, shell, SQL

Frameworks   PyTorch, TensorFlow, Theano, Caffe, RubyOnRails, HBase, Apache Phoenix, MapReduce, Spark