

TETE XIAO

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EDUCATION

University of California, Berkeley (2019.8 - present)

Doctor of Philosophy, Berkeley Artificial Intelligence Research Lab

Advisor: Prof. Trevor Darrell

Peking University (2015.9 - 2019.6)

Bachelor of Science (summa cum laude), School of Electronics Engineering and Computer Science

PUBLICATIONS

1. **Tete Xiao**, Mannat Singh, Eric Mintun, Trevor Darrell, *Piotr Dollár, and *Ross Girshick (*: equal contribution)
Early Convolutions Help Transformers See Better,
Tech report (in submission), 2021
2. ***Tete Xiao**, *Colorado Reed, Xiaolong Wang, Kurt Keutzer and Trevor Darrell (*: equal contribution)
Region Similarity Representation Learning,
Tech report (in submission), 2021
3. **Tete Xiao**, Xiaolong Wang, Alexei A. Efros, and Trevor Darrell
What Should Not Be Contrastive in Contrastive Learning,
International Conference on Learning Representations (**ICLR**), 2021
4. Qiang Zhang, **Tete Xiao**, Alexei A. Efros, Lerrel Pinto, and Xiaolong Wang
Learning Cross-Domain Correspondence for Control with Dynamics Cycle-Consistency,
International Conference on Learning Representations (**ICLR**), **Oral**, 2021
5. Elad Levi, **Tete Xiao**, Xiaolong Wang, and Trevor Darrell
Reducing Class Collapse in Metric Learning with Easy Positive Sampling,
Tech Report (in submission), 2020
6. Joanna Materzynska, **Tete Xiao**, Roei Herzig, Huijuan Xu, Xiaolong Wang, and Trevor Darrell
Something-Else: Compositional Action Recognition with Spatial-Temporal Interaction Networks,
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020
7. **Tete Xiao**, Quanfu Fan, Dan Gutfreund, Mathew Monfort, Aude Oliva and Bolei Zhou
Reasoning About Human-Object Interactions Through Dual Attention Networks,
International Conference on Computer Vision (**ICCV**), 2019
8. Bolei Zhou, Hang Zhao, Xavier Puig, **Tete Xiao**, Sanja Fidler, Adela Barriuso and Antonio Torralba
Semantic Understanding of Scenes through the ADE20K Dataset,
International Journal of Computer Vision (**IJCV**), 2018
9. ***Tete Xiao**, *Yingcheng Liu, *Bolei Zhou, Yuning Jiang and Jian Sun (*: equal contribution)
Unified Perceptual Parsing for Scene Understanding,
European Conference on Computer Vision (**ECCV**), 2018
10. *Borui Jiang, *Ruixuan Luo, *Jiayuan Mao, **Tete Xiao**, Yuning Jiang and Jian Sun
Acquisition of Localization Confidence for Accurate Object Detection,
European Conference on Computer Vision (**ECCV**), **Oral**, 2018
11. *Haoyue Shi, *Jiayuan Mao, ***Tete Xiao**, Yuning Jiang and Jian Sun (*: equal contribution)
Learning Visually-Grounded Semantics from Contrastive Adversarial Samples,
International Conference on Computational Linguistics (**COLING**), 2018

12. *Chao Peng, ***Tete Xiao**, *Zeming Li, Yuning Jiang, Xiangyu Zhang, Kai Jia, Gang Yu and Jian Sun (*: equal contribution)
MegDet: A Large Batch Object Detector,
 IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), **Spotlight**, 2018
Winner of the COCO 2017 Detection Challenge
13. Xinlong Wang, **Tete Xiao**, Yuning Jiang, Shuai Shao, Jian Sun and Chunhua Shen
Repulsion Loss: Detecting Pedestrians in a Crowd,
 IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
14. *Jiayuan Mao, ***Tete Xiao**, Yuning Jiang and Zhimin Cao (*: equal contribution)
What Can Help Pedestrian Detection,
 IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2017

ACADEMIC COMPETITIONS

1. *Chao Peng, ***Tete Xiao**, *Zeming Li, Yuning Jiang, Xiangyu Zhang, Kai Jia, Gang Yu and Jian Sun (*: equal contribution)
Face++,
Winner of the COCO 2017 Detection Challenge.
2. ***Tete Xiao**, *Ruixuan Luo, *Borui Jiang, Shuai Shao, Yuning Jiang, Yadong Mu, Jieqi Shi, Chi Zhang and Jian Sun (*: equal contribution)
Face++ and Peking University,
Winner of the Places 2017 Instance Segmentation Challenge.
3. Yilun Chen*, Zhicheng Wang*, Yuxiang Peng, Zhiqiang Zhang, Gang Yu, Chao Peng, **Tete Xiao**, Zeming Li, Yuning Jiang, Xiangyu Zhang, Jian Sun
Face++,
Winner of the COCO 2017 Human Keypoint Challenge.
4. Ruixuan Luo*, Borui Jiang*, **Tete Xiao***, Chao Peng*, Yuning Jiang, Zeming Li, Xiangyu Zhang, Gang Yu and Jian Sun (*: equal contribution)
Face++ and Peking University,
First runner-up of the COCO 2017 Instance Segmentation Challenge.

EXPERIENCE

- Research Intern in AI, MIT-IBM Watson AI Lab** (2018.7 - 2018.12)
 Mentor: Dr. Quanfu Fan and Dr. Dan Gutfreund, IBM Research
 Collaborator: Dr. Bolei Zhou and Dr. Aude Oliva, MIT CSAIL
- Research Intern in Auto Driving** (2018.5 - 2018.7)
 Mentor: Dr. Shaoqing Ren, R&D Director and Co-founder, Momenta AI
- Senior Research Intern in Computer Vision** (2015.12 - 2018.5)
 Mentor: Mr. Yuning Jiang, Lead Researcher, Megvii Research
 Supervisor: Dr. Jian Sun, Chief Scientist, Megvii Research
- Research Assistant in Computer Vision, Machine Intelligence Lab** (2016.5 - 2017.6)
 Supervisor: Dr. Yadong Mu, Assistant Professor, Peking University

OPEN-SOURCED PROJECTS

1. Semantic segmentation toolbox on PyTorch in conjunction with MIT CSAIL (~4k stars).
<https://github.com/CSAILVision/semantic-segmentation-pytorch>
2. Precise RoI-Pooling, proposed in Acquisition of Localization Confidence for Accurate Object Detection (~700 stars). <https://github.com/vacancy/PreciseRoIPooling>
3. Unified Perceptual Parsing, proposed in Unified Perceptual Parsing for Scene Understanding (~200 stars). <https://github.com/CSAILVision/unifiedparsing>

COMPETITIONS

1. Gold Medals, ACM International Collegiate Programming Contest (ACM-ICPC) Asia Regional, 2016.11 & 2017.11
2. Gold Medal, “Surpass Cup” Peking University Programming Contest, 2016.5
3. Bronze Medal, National Olympiad in Informatics (NOI), 2014.8
4. Champion, Shandong Province Team Selection Contest for NOI, 2014.5

HONORS & AWARDS

1. Snap Research Scholarship 2019
2. China National Scholarship, Peking University
3. The Scholarship for the Outstanding Talented, Peking University
4. Founder Group Scholarship, Peking University
5. Schlumberger Scholarship, Peking University
6. Merit Student, Peking University

ACADEMIC SERVICE & LEADERSHIP

1. Conference reviewer: CVPR’19-; ICCV’19-; ECCV’20-; AAAI’20-; NeurIPS’21-; ICRA’21-
2. Journal reviewer: TPAMI; TIP; TCSVT
3. Teaching faculty: Practice in Programming (Spring 17-18), Artificial Intelligence and Computer Vision (Spring 18-19), Peking University
4. Assistant Coach of Team PKU at ACM/ICPC World Final 2017, Rapid City, U.S., where we ranked 7th worldwide and won a silver medal, the second best record of the university at that time.