TETE XIAO

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EDUCATION

Peking University, Beijing, China   (*2015.9 - present*)
B.S., Department of Intelligence Science, School of Electronics Engineering and Computer Science
GPA: 3.71 / 4
Core Courses: Advanced Mathematics (94 & 100), Linear Algebra (91), Introduction to Computing (93),
Practice of Programming in C&C++ (100), Data Structure and Algorithms (91)

PUBLICATIONS (W/ SUBMISSIONS)

1. **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, (under review)

2. 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), Nov. 2018

3. ***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), Sept. 2018

4. *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**, Sept. 2018

5. *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), Aug. 2018

6. *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**, Jun. 2018
   Winner of the COCO 2017 Detection Challenge

7. 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), Jun. 2018

8. *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), Jul. 2017

ACADEMIC COMPETITIONS

1. *Chao Peng, ***Tete Xiao**, *Zeming Li, Yuning Jiang, Xiangyu Zhang, Kai Jia, Gang Yu
   and Jian Sun (*: equal contribution)
   Megvii (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)
   Megvii (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
   Megvii (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)
   Megvii (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 (Face++) Research
Supervisor: Dr. Jian Sun, Chief Scientist, Megvii (Face++) Research

Research Assistant in Computer Vision, Machine Intelligence Lab *(2016.5 - 2017.6)*
Supervisor: Dr. Yadong Mu, Assistance Professor, Peking University

OPEN-SOURCED PROJECTS

1. Semantic segmentation toolbox on PyTorch in conjuction with MIT CSAIL ($\sim$2000 stars). `https://github.com/CSAILVision/semantic-segmentation-pytorch`
2. Precise RoI-Pooling, proposed in Acquisition of Localization Confidence for Accurate Object Detection ($\sim$400 stars). `https://github.com/vacancy/PreciseRoIPooling`
3. Unified Perceptual Parsing, proposed in Unified Perceptual Parsing for Scene Understanding ($\sim$150 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

ACADEMIA SERVICE & LEADERSHIP

1. Conference reviewer: CVPR'19, ICCV'19
2. Journal reviewer: TCSVT

3. Teaching faculty: Practice in Programming (Spring 17-18), Artifical 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.