

# TETE XIAO

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## EDUCATION

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**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

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1. 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), (under review), Oct. 2018
2. \***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
3. \*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
4. \*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
5. \*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
6. 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
7. \*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

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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

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- Research Intern in AI, MIT-IBM Watson AI Lab** (2018.7 - present)  
Mentor: Dr. Quanfu Fan and Dr. Dan Gutfreund, IBM Research  
Collaborator: Dr. Bolei Zhou, Ph.D., MIT CSAIL  
Supervisor: Dr. Aude Oliva, Principal Investigator, MIT CSAIL
- Research Intern in Auto Driving** (2018.5 - 2018.7)  
Mentor: 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

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1. Semantic segmentation toolbox on PyTorch in conjunction with MIT CSAIL (1500+ stars).  
<https://github.com/CSAILVision/semantic-segmentation-pytorch>
2. Precise RoI-Pooling, proposed in Acquisition of Localization Confidence for Accurate Object Detection (300+ stars). <https://github.com/vacancy/PreciseRoIPooling>
3. Unified Perceptual Parsing, proposed in Unified Perceptual Parsing for Scene Understanding (100+ stars). <https://github.com/CSAILVision/unifiedparsing>

## COMPETITIONS

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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

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1. China National Scholarship, Peking University
2. The Scholarship for the Outstanding Talented, Peking University
3. “Founder Group” Scholarship, Peking University
4. “Schlumberger” Scholarship, Peking University
5. Merit Student, Peking University

## ACADEMIA SERVICE & LEADERSHIP

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1. Conference reviewer: CVPR’19
2. Assistant Coach of Team PKU at ACM/ICPC World Final 2017, Rapid City, U.S., where we ranked **7** worldwide and won a silver medal, the second best record of the university at the time.