

Weizhe Liu

PERSONAL INFORMATION

PhD Candidate
Computer Vision Laboratory
School of Computer and Communication Sciences
École Polytechnique Fédérale de Lausanne

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<https://weizheliu.github.io>

RESEARCH INTEREST

Scene Understanding, Crowd Counting, Semantic Segmentation, Domain Adaptation, Un/Semi/Weakly-Supervised Learning, Adversarial Learning

EDUCATION

2017-2021(expected): Doctoral Assistant, Computer Vision Laboratory
Supervisor: Prof. Pascal Fua
School of Computer and Communication Sciences
École Polytechnique Fédérale de Lausanne (EPFL)

2016-2017: Visiting Student, Vision Lab,
Supervisor: Prof. Stefano Soatto
University of California, Los Angeles (UCLA)

2014-2017: Master of Communication Systems
School of Computer and Communication Sciences
École Polytechnique Fédérale de Lausanne (EPFL)

2010-2014: Bachelor of Electronic Information Engineering
School of Electronic Engineering
University of Electronic Science and Technology of China (UESTC)

WORK EXPERIENCE

07/2020-10/2020: Applied Scientist Intern, Amazon
Work with: Dr. Christian Leistner, Dr. David Ferstl, Dr. Samuel Schulter and Dr. Lukas Zebedin
Topic: Semi-Supervised Domain Adaptation for Semantic Segmentation

PREPRINTS

- **Weizhe Liu**, Mathieu Salzmann, Pascal Fua : “ *Using Depth for Pixel-Wise Detection of Adversarial Attacks in Crowd Counting*”.
- **Weizhe Liu**, Mathieu Salzmann, Pascal Fua : “ *Counting People by Estimating People Flows*”. (Extension of our ECCV 2020 paper)

PUBLICATIONS

- **Weizhe Liu**, Mathieu Salzmann, Pascal Fua : “ *Estimating People Flows to Better Count Them in Crowded Scenes*”. *The European Conference on Computer Vision (ECCV 2020)*, Glasgow, UK, 2020
- **Weizhe Liu**, Krzysztof Lis, Mathieu Salzmann, Pascal Fua : “ *Geometric and Physical Constraints for Drone-based Head Plane Crowd Density Estimation in Videos*”. *The IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019)*, Macau, China, 2019 .
- **Weizhe Liu**, Mathieu Salzmann, Pascal Fua : “ *Context-Aware Crowd Counting* ”. *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2019)*, Long Beach, US, 2019.