YIHONG CHEN

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RESEARCH INTEREST

My research interests focus on the intersection of 3D computer vision, graphics, and machine learning. During the earlier stages of my research, I'm interested in fundamental visual perception tasks like object detection and practical applications like medical imaging.

EDUCATION

EPFL, Lausanne, Switzerland   *2022 - Current*
Ph.D. student at CVLAB (supervised by Prof. [Pascal Fua])
Peking University, Beijing, China   *2018 - 2021*
Beijing Institute of Big Data Research, Academy for Advanced Interdisciplinary Studies
Master student (supervised by Prof. [Liwei Wang]) in Data Science
Xiamen University, Xiamen, China   *2014 - 2018*
School of Mathematical Sciences
Bachelor of Science in Mathematics   Overall (Major) GPA: 3.78 (3.95)/4.0

PUBLICATION

1. Dong Wang, Zhao Zhang, Ziwei Zhao, Yuhang Liu, **Yihong Chen**, Liwei Wang
   PointScatter: Point Set Representation for Tubular Structure Extraction
   In Europe Conference on Computer Vision (ECCV) (oral)   2022

2. Ziwei Zhao, Dong Wang, **Yihong Chen**, Ziteng Wang, Liwei Wang
   Check and Link: Pairwise Lesion Correspondence Guides Mammogram Mass Detection
   In Europe Conference on Computer Vision (ECCV)   2022

3. **Yihong Chen**, Zheng Zhang, Yue Cao, Liwei Wang, Stephen Lin and Han Hu
   RepPoints V2: Verification Meets Regression for Object Detection
   In Neural Information Processing Systems (NeurIPS)   2020

4. **Yihong Chen**, Yue Cao, Han Hu and Liwei Wang
   Memory Enhanced Global-Local Aggregation for Video Object Detection
   In Computer Vision and Pattern Recognition (CVPR)   2020

EXPERIENCE

Microsoft Research Asia, China   *Dec. 2019 - Dec. 2020*
Full-time research intern
Working with [Han Hu], [Yue Cao], [Zheng Zhang] on basic computer vision tasks like object detection, instance segmentation and their extension in video understanding.

HONORS & REWARDS

- summa cum laude, Peking University, 2021
- National Scholarship, Ministry of Education of China, 2020
- summa cum laude, Xiamen University, 2018
- Silver Medal, ACM-ICPC Asia Regional, 2017
- National Scholarship, Ministry of Education of China, 2016
- The Elite Undergraduate Training Program of Math, Ministry of Education of China, 2015-2018

- Bronze Medal, National Olympiad in Informatics (NOI), 2013

PROFESSIONAL SERVICE

- Journal Reviewer: TPAMI, IJCV, TNNLS
- Conference Reviewer: CVPR