

Xiaohui Zeng

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EDUCATION

- University of Toronto** Toronto, Canada
PhD in Computer Science 2020 - now
- **Supervisor: Sanja Fidler**
M.S. in Computer Science 2018 - 2020
Supervisor: Raquel Urtasun, Sanja Fidler
- Hong Kong University of Science and Technology** Hong Kong
B.S. (First-Class Honours) in Mathematics 2013 - 2018
- *B.S. (First-Class Honours) in Computer Science* 2015 - 2018
Supervisor: Chi Keung Tang, Dit-Yan Yeung

PUBLICATIONS

- **Magic3D: High-Resolution Text-to-3D Content Creation**
Chen-Hsuan Lin*, Jun Gao*, Luming Tang*, Towaki Takikawa*, Xiaohui Zeng*, Xun Huang, Karsten Kreis, Sanja Fidler, Ming-Yu Liu, Tsung-Yi Lin
In Conference on Computer Vision and Pattern Recognition (CVPR), 2022 **Highlight**[paper] [project]
- **LION: Latent Point Diffusion Models for 3D Shape Generation**
Xiaohui Zeng, Arash Vahdat, Francis Williams, Zan Gojcic, Or Litany, Sanja Fidler, Karsten Kreis
Advances in Neural Information Processing Systems (NeurIPS), 2022 [paper] [code]
- **HILA: Improving Semantic Segmentation in Transformers using Hierarchical Inter-Level Attention**
Gary Leung, Jun Gao, **Xiaohui Zeng**, and Sanja Fidler.
Arxiv, 2022 [paper] [code]
- **NP-DRAW: A Non-parametric Structured Latent Variable Model for Image Generation**
Xiaohui Zeng, Raquel Urtasun, Richard S. Zemel, Sanja Fidler, Renjie Liao
The Conference on Uncertainty in Artificial Intelligence (UAI), 2021 [paper] [code]
- **ScribbleBox: Interactive Annotation Framework for Video Object Segmentation**
Bowen Chen, Huan Ling, **Xiaohui Zeng**, Jun Gao, Ziyue Xu, Sanja Fidler
In European Conference on Computer Vision (ECCV), 2020 [paper]
- **DMM-Net: Differentiable Mask-Matching Network for Video Object Segmentation**
Xiaohui Zeng*, Renjie Liao*, Li Gu, Yuwen Xiong, Sanja Fidler, Raquel Urtasun
In IEEE International Conference on Computer Vision (ICCV), 2019 [paper] [code]
- **Adversarial Attacks Beyond the Image Space**
Xiaohui Zeng, Chenxi Liu, Yu-Siang Wang, Weichao Qiu, Lingxi Xie, Yu-Wing Tai, Chi Keung Tang, Alan Yuille
In Conference on Computer Vision and Pattern Recognition (CVPR), 2019 **Oral** [paper]
- **Scene Graph Parsing as Dependency Parsing**
Yu-Siang Wang, Chenxi Liu, **Xiaohui Zeng**, Alan Yuille
In North American Chapter of the Association for Computational Linguistics (NAACL), 2018 **Oral** [paper] [code]

EXPERIENCE

- **Research Scientist, NVIDIA** Jan 2023 - now
- **Research Intern, NVIDIA** June 2021 - Jan 2023
- **Research Intern, Uber ATG** Dec 2020 - Jan 2021
- **Teaching Assistant, University of Toronto** Spring 2019
- **Research Assistant, Johns Hopkins University** Summer 2017
- *Advisor: Alan Yuille*
- **Research Assistant, ETH, Zurich** April 2017 - June 2017
- *Advisor: Luc Van Gool*
- **Research Intern, SenseTime Group Limited** Step. 2016 - April 2017
- **Research Intern, Yitu Technology** May 2016 - July 2016
- **Research Assistant, HKUST** Feb. 2016 - Sept 2016
- *Advisor: Dit-Yan Yeung*
- **Teaching Assistant, University of Toronto** 2019

ACADEMIC SERVICE

- Conference Reviewer: NeurIPS, CVPR, IJCAI, ICCV, ICML
- Journal Reviewer: IJCV, AIJ, IEEE TNNLS, IEEE TPAMI