

Haoxuan You

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Education

Columbia University

- Doctor of Philosophy (Ph.D.) in Computer Science
- Adviser: [Prof. Shih-Fu Chang](#) (Dean of Engineering School, Fellow of AAAS, ACM and IEEE)
- Area: Computer Vision and Machine Learning

New York, NY

Sep. 2019 - Present

Xidian University

- Bachelor of Engineering in Electronic Information Engineering
- GPA: 3.77/4.0

Xi'an, China

Sep. 2014 - Jun. 2018

Research Interests

Computer Vision: Vision&Language Understanding; Scene Graph Generation; 3D Representation.

Machine Learning: Graph Neural Network; Domain Adaptation.

Publication

- [1] Learning Visual Representation from Modality-Shared Contrastive Language-Image Pre-training
Haoxuan You*, Luowei Zhou*, Bin Xiao*, Noel Codella*, Yu Cheng, Ruochen Xu, Shih-Fu Chang, Lu Yuan. (*Equal Contribution)
European Conference on Computer Vision (ECCV) 2022
- [2] Find Someone Who: Visual Commonsense Understanding in Human-Centric Grounding
Haoxuan You, Rui Sun, Zhecan Wang, Kai-Wei Chang, Shih-Fu Chang.
Findings of Empirical Methods in Natural Language Processing (EMNLP-findings) 2022
- [3] Understanding ME? Multimodal Evaluation for Fine-grained Visual Commonsense
Zhecan Wang, **Haoxuan You**, Yicheng He, Wenhao Li, Kai-Wei Chang, Shih-Fu Chang
Empirical Methods in Natural Language Processing (EMNLP) 2022
- [4] Rethinking network design and local geometry in point cloud: A simple residual mlp framework
Xu Ma, Can Qin, **Haoxuan You**, Haoxi Ran, Yun Fu.
International Conference on Learning Representations (ICLR) 2022
- [5] SGEITL: Scene Graph Enhanced Image-Text Learning for Visual Commonsense Reasoning
Zhecan Wang*, **Haoxuan You***, Alireza Zareian, Liunian Li, Suji Park, Yiqing Liang, Kai-Wei Chang, Shih-Fu Chang.
(*Equal Contribution)
36th AAAI Conference on Artificial Intelligence (AAAI) 2022
- [6] Unsupervised Vision-and-Language Pre-training Without Parallel Images and Captions
Liunian Harold Li, **Haoxuan You**, Zhecan Wang, Alireza Zareian, Shih-Fu Chang, Kai-Wei Chang
Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2021
- [7] Learning Visual Commonsense for Robust Scene Graph Generation
Alireza Zareian*, Zhecan Wang*, **Haoxuan You***, Shih-Fu Chang. (*Equal Contribution)
European Conference on Computer Vision (ECCV) 2020
- [8] PointHop: An Explainable Machine Learning Method for Point Cloud Classification
Min Zhang, **Haoxuan You***, Pranav Kadam, Shan Liu, C-C Jay Kuo. (*Corresponding Author)
IEEE Transactions on Multimedia, VOL. 22, NO. 7, JULY 2020
- [9] PointDAN: A Multi-Scale 3D Domain Adaption Network for Point Cloud Representation
Can Qin*, **Haoxuan You***, Lichen Wang, C-C Jay Kuo, Yun Fu. (*Equal Contribution)
Conference on Neural Information Processing Systems (NeurIPS) 2019

- [10] Decoding EEG by Visual-guided Deep Neural Networks
Zhicheng Jiao, **Haoxuan You**, Fan Yang, Xin Li, Han Zhang, Dinggang Shen.
28th International Joint Conference on Artificial Intelligence (**IJCAI**) 2019
- [11] Multi-modality latent interaction network for visual question answering
Peng Gao, **Haoxuan You**, Zhanpeng Zhang, Xiaogang Wang, Hongsheng Li.
IEEE International Conference on Computer Vision (**ICCV**) 2019
- [12] Dynamic Fusion with Intra- and Inter-modality Attention Flow for Visual Question Answering
Peng Gao, Hongsheng Li, **Haoxuan You**, Zhengkai Jiang, Pan Lu, Steven Hoi, Xiaogang Wang.
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**) 2019
- [13] PVRNet: Point-View Relation Neural Network for 3D Shape Recognition
Haoxuan You, Yifan Feng, Xibin Zhao, Changqing Zou, Rongrong Ji, Yue Gao.
33rd AAAI Conference on Artificial Intelligence (**AAAI**) 2019
- [14] Hypergraph Neural Network
Yifan Feng, **Haoxuan You**, Rongrong Ji, Yue Gao.
33rd AAAI Conference on Artificial Intelligence (**AAAI**) 2019
- [15] MeshNet: Mesh Neural Network for 3D Shape Representation
YuTong Feng, Yifan Feng, **Haoxuan You**, Xibin Zhao, Yue Gao.
33rd AAAI Conference on Artificial Intelligence (**AAAI**) 2019
- [16] PVNet: A Joint Convolutional Network of Point Cloud and Multi-View for 3D Shape Recognition
Haoxuan You, Yifan Feng, Rongrong Ji, Yue Gao.
ACM International Conference on Multimedia (**ACM MM**) 2018

Experience

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| <p>Google Research, Google</p> <p><i>Student Researcher</i></p> <ul style="list-style-type: none"> Advisor: Mandy Guo, Jiahui Yu, Jason Baldridge Project: Large-scale Bi-directional Vision-Language Generation Model. | <p>NYC</p> <p><i>May. 2022 - Now</i></p> |
| <p>Azure Cognitive Services Research, Microsoft</p> <p><i>Research Intern</i></p> <ul style="list-style-type: none"> Advisor: Luowei Zhou Project: Vision & Language Pre-training Model (1 ECCV) | <p>Remote</p> <p><i>Jun. 2021 - Aug. 2021</i></p> |
| <p>Media Communications Lab, University of Southern California</p> <p><i>Visiting Scholar</i></p> <ul style="list-style-type: none"> Advisor: Prof. C.-C. Jay Kuo (Distinguished Professor, Fellow of AAAS, IEEE and SPIE) Project: 3D Point Cloud Learning (1 TMM, 1 NeurIPS) | <p>Los Angeles, CA</p> <p><i>Dec. 2018 - May. 2019</i></p> |
| <p>School of Software, Tsinghua University</p> <p><i>Research Assistant</i></p> <ul style="list-style-type: none"> Advisor: Prof. Yue Gao Project: <ul style="list-style-type: none"> – 3D Point Cloud & Multi-view Representation Learning (1 ACMMM, 1 AAAI) – Hypergraph Neural Network (1 AAAI) – Visual Question Answering (1 CVPR, 1 ICCV) | <p>Beijing, China</p> <p><i>Feb. 2018 - Nov. 2018</i></p> |

Computer Programming

Programming: Python, C, C++, MATLAB and others
Tools: Pytorch, Jax, Tensorflow, Keras.