

Haoxuan You

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Education

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| Columbia University | New York, NY |
| • Doctor of Philosophy (Ph.D.) in Computer Science | <i>Sep. 2019 - May. 2024 (Expected)</i> |
| • Adviser: Prof. Shih-Fu Chang (Dean of Engineering School, Fellow of NAI, AAAS, ACM and IEEE) | |
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| Xidian University | Xi'an, China |
| • Bachelor of Engineering in Electronic Information Engineering | <i>Sep. 2014 - Jun. 2018</i> |
| • GPA: 3.77/4.0 | |

Research Interests

Vision-Language Learning; Text-to-Image Generation; Multimodal Foundation Models.

Experience

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| AI/ML, Apple | Seattle |
| <i>Research Intern</i> | <i>May. 2023 - Now</i> |
| • Advisor: Liangliang Cao , Yinfei Yang , Zhe Gan | |
| • Working on Multimodal Foundation Model. | |
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| Google Research, Google | NYC |
| <i>Student Researcher</i> | <i>May. 2022 - Mar. 2023</i> |
| • Advisor: Mandy Guo , Jiahui Yu , Jason Baldridge | |
| • Project: Large-Scale Bi-directional Image-Text Generation Model. (Train w/ 1024 TPUs/job) | |
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| Azure Cognitive Services Research, Microsoft | Remote |
| <i>Research Intern</i> | <i>Jun. 2021 - Aug. 2021</i> |
| • Advisor: Luowei Zhou | |
| • Project: Modality-Shared Contrastive Image-Text Pre-training. | |

Publication

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- [1] CoBIT: A Contrastive Bi-directional Image-Text Generation Model
Haoxuan You, Mandy Guo, Zhecan Wang, Kai-Wei Chang, Jason Baldridge, Jiahui Yu
Arxiv, Under Submission, 2023
- [2] IdealGPT: Iteratively Decomposing Vision and Language Reasoning via Large Language Models
Haoxuan You*, Rui Sun*, Zhecan Wang*, Long Chen, Gengyu Wang, Hammad A Ayyubi, Kai-Wei Chang, Shih-Fu Chang
Arxiv, Under Submission, 2023
- [3] UniFine: A Unified and Fine-grained Approach for Zero-shot Vision-Language Understanding
Rui Sun*, Zhecan Wang*, **Haoxuan You***, Noel Codella, Kai-Wei Chang, Shih-Fu Chang
Annual Meeting of the Association for Computational Linguistics (ACL-findings) 2023
- [4] 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
- [5] 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

- [6] 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
- [7] 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
- [8] 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
- [9] 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
- [10] 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
- [11] 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
- [12] 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
- [13] 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
- [14] 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
- [15] 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
- [16] 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
- [17] Hypergraph Neural Network
Yifan Feng, **Haoxuan You**, Rongrong Ji, Yue Gao.
33rd AAAI Conference on Artificial Intelligence (AAAI) 2019
- [18] 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
- [19] 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

Computer Programming

Programming: Python, C, C++, MATLAB and others

Tools: Pytorch, Jax, Tensorflow, Keras.