

Haoxuan You

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Education

Columbia University

• Doctor of Philosophy (Ph.D.) in Computer Science	New York, NY
• Master of Philosophy (MPhil) in Computer Science	Sep. 2019 - May. 2024 (Expected)
• Master of Science (MSC) in Computer Science	Sep. 2019 - May. 2023
• Adviser: Prof. Shih-Fu Chang (Dean of Engineering School; Member of the National Academy of Engineering; Fellow of NAI, AAAS, ACM and IEEE)	Sep. 2019 - Feb. 2021

Xidian University

• Bachelor of Engineering in Electronic Information Engineering	Xi'an, China
• GPA: 3.77/4.0	Sep. 2014 - Jun. 2018

Research Interests

Now: Vision-Language Learning; Multimodal Foundation Models;
Previous: 3D Vision Learning; Graph Neural Networks.

Experience

AI/ML, Apple

Research Intern Seattle
May. 2023 - Now

- Advisor: [Liangliang Cao](#), [Yinfei Yang](#), [Zhe Gan](#)
- Research about Multimodal Foundation Model. Published a paper at ICLR 2024.

Google Research, Google

Student Researcher NYC
May. 2022 - Mar. 2023

- Advisor: [Mandy Guo](#), [Jiahui Yu](#), [Jason Baldridge](#)
- Research in Large-Scale Bi-directional Image-Text Generation. Paper accepted at ICLR 2024.

Azure Cognitive Services Research, Microsoft

Research Intern Remote
Jun. 2021 - Aug. 2021

- Advisor: [Luowei Zhou](#)
- Research about Modality-Shared Contrastive Image-Text Pre-training. Paper accepted at ECCV2022.

Paper - Preprint

* means equal contribution

[1] Ferret-v2: An Improved Baseline for Referring and Grounding with Large Language Models.
Haotian Zhang, Haoxuan You*, Philipp Dufter, Bowen Zhang, Chen Chen, Hong-You Chen, Tsu-Jui Fu et al.*
arXiv preprint arXiv:2404.07973 (2024).

[2] LLM-based Conversational AI Therapist for Daily Functioning Screening and Psychotherapeutic Intervention via Everyday Smart Devices
Jingping Nie, Hanya Shao, Yuang Fan, Qijia Shao, Haoxuan You, Matthias Preindl, and Xiaofan Jiang
arXiv preprint arXiv:2403.10779 (2024).

[3] Multimodal adaptive distillation for leveraging unimodal encoders for vision-language tasks
Zhecan Wang, Noel Codella, Yen-Chun Chen, ... , Haoxuan You, Kai-Wei Chang, Shih-fu Chang, Lu Yuan
arXiv preprint arXiv:2204.10496 (2022).

[4] Graph-MLP: Node Classification without Message Passing in Graph
Yang Hu, Haoxuan You, Zhecan Wang, Zhicheng Wang, Erjin Zhou, and Yue Gao.
arXiv preprint arXiv:2106.04051 (2021).

Paper - Publication

* means equal contribution

[1] Ferret: Refer and Ground Anything Anywhere at Any Granularity
Haoxuan You*, Haotian Zhang*, Zhe Gan, Xianzhi Du, Bowen Zhang, Zirui Wang, Liangliang Cao, Shih-Fu Chang, Yinfei Yang
International Conference on Learning Representations (ICLR) 2024

[2] CoBIT: A Contrastive Bi-directional Image-Text Generation Model
Haoxuan You, Mandy Guo, Zhecan Wang, Kai-Wei Chang, Jason Baldridge, Jiahui Yu
International Conference on Learning Representations (ICLR) 2024

[3] Dataset Bias Mitigation in Multiple-Choice Visual Question Answering and Beyond
Zhecan Wang, Long Chen, **Haoxuan You**, Keyang Xu, Yicheng He, Wenhao Li, Noel Codella, Kai-Wei Chang, Shih-Fu Chang
Findings of Empirical Methods in Natural Language Processing (EMNLP-findings) 2023

[4] 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
Findings of Empirical Methods in Natural Language Processing (EMNLP-findings) 2023

[5] 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

[6] 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.
European Conference on Computer Vision (ECCV) 2022

[7] 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

[8] 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

[9] SHREC'22 track: Open-set 3D object retrieval.
Yifan Feng, Yue Gao, Xibin Zhao, Yandong Guo, Nihar Bagewadi, ..., **Haoxuan You**, Difei Zhu
Computers & Graphics 107 (2022): 231-240

[10] Bridging the Gap between Recognition-level Pre-training and Commonsensical Vision-language Tasks.
Yue Wan, Yueen Ma, **Haoxuan You**, Zhecan Wang, and Shih-Fu Chang.
ACL 2022 Workshop on Commonsense Representation and Reasoning. 2022.

[11] 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

[12] 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.
36th AAAI Conference on Artificial Intelligence (AAAI) 2022

[13] 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

[14] Learning Visual Commonsense for Robust Scene Graph Generation
Alireza Zareian*, Zhecan Wang*, **Haoxuan You***, Shih-Fu Chang.
European Conference on Computer Vision (ECCV) 2020

[15] 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

[16] PointDAN: A Multi-Scale 3D Domain Adaption Network for Point Cloud Representation
Can Qin, **Haoxuan You***, Lichen Wang, C-C Jay Kuo, Yun Fu.*
Conference on Neural Information Processing Systems (NeurIPS) 2019

[17] 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

[18] 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

[19] 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

[20] 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

[21] Hypergraph Neural Network
*Yifan Feng, **Haoxuan You**, Rongrong Ji, Yue Gao.*
33rd AAAI Conference on Artificial Intelligence (AAAI) 2019

[22] 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

[23] 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