Kuo-Hao Zeng

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Education and Research Experience

2023– **Allen Institute for AI (AI2)**, *Research Scientist*,
PRIOR.

2018–2023 **University of Washington - Computer Science and Engineering**, *Ph.D.*,
Advisors: Prof. Ali Farhadi and Prof. Roozbeh Mottaghi @ UW RAIVN Lab.

2014–2017 **National Tsing Hua University - Electrical Engineering**, *M.S.*,
Advisor: Prof. Min Sun @ NTHU Vision Science Lab.

2010–2014 **National Sun Yat-sen University - Mechanical and Electromechanical Engineering**, *B.S.*.

Selected Publications

Kuo-Hao Zeng, Zichen "Charles" Zhang, Kiana Ehsani, Rose Hendrix, Jordi Salvador, Alvaro Herrasti, Ross Girshick, Aniruddha Kembhavi, Luca Weihs, "PoliFormer: Scaling On-Policy RL with Transformers Results in Masterful Navigators". *CoRL 2024*, ☑.

Kiana Ehsani*, Tanmay Gupta*, Rose Hendrix*, Jordi Salvador*, Luca Weihs*, **Kuo-Hao Zeng***, Kunal Pratap Singh, Yejin Kim, Winson Han, Alvaro Herrasti, Ranjay Krishna, Dustin Schwenk, Eli VanderBilt, Aniruddha Kembhavi, "Imitating Shortest Paths in Simulation Enables Effective Navigation and Manipulation in the Real World". *CVPR 2024*, ☑.

Ram Ramrakhya, Aniruddha Kembhavi, Dhruv Batra, Zsolt Kira, **Kuo-Hao Zeng***, Luca Weihs*, "Seeing the Unseen: Visual Common Sense for Semantic Placement". *CVPR 2024*, ☑.

Ainaz Eftekhar**, Kuo-Hao Zeng***, Jiafei Duan, Ali Farhadi, Ani Kembhavi, Ranjay Krishna, "Selective Visual Representations Improve Convergence and Generalization for Embodied AI". *ICLR 2024*, ☑.

Kuo-Hao Zeng, Luca Weihs, Roozbeh Mottaghi, Ali Farhadi, "Moving Forward by Moving Backward: Embedding Action Impact over Action Semantics". *ICLR 2023*, ☑.

Kuo-Hao Zeng, Luca Weihs, Ali Farhadi, Roozbeh Mottaghi, "Pushing it out of the Way: Interactive Visual Navigation". *CVPR 2021*, ☑.

Luca Weihs, Jordi Salvador, Klemen Kotar, Unnat Jain, **Kuo-Hao Zeng**, Roozbeh Mottaghi, Aniruddha Kembhavi, "AllenAct: A Framework for Embodied AI Research". *ArXiv 2020*, ☑.

Kuo-Hao Zeng, Roozbeh Mottaghi, Luca Weihs, Ali Farhadi, "Visual Reaction: Learning to Play Catch with Your Drone". *CVPR 2020*, ☑.

Kuo-Hao Zeng, William B. Shen, De-An Huang, Min Sun, Juan Carlos Niebles, "Visual Forecasting by Imitating Dynamics in Natural Sequences". *ICCV 2017*, ☑.

Kuo-Hao Zeng, Shih-Han Chou, Fu-Hsiang Chan, Juan Carlos Niebles, Min Sun, "Agent-Centric Risk Assessment: Accident Anticipation and Risky Region Localization". *CVPR 2017*, ☑.

Kuo-Hao Zeng, Tseng-Hung Chen, Ching-Yao Chuang, Yuan-Hong Liao, Juan Carlos Niebles, Min Sun, "Leveraging Video Descriptions to Learn Video Question Answering". *AAAI 2017*, ☑.

Kuo-Hao Zeng, Tseng-Hung Chen, Juan Carlos Niebles, Min Sun, "Title Generation for User Generated Videos". *ECCV 2016*, ☑.

Past Work Experience and Services

Intern, *Nvidia 2019, 2022, Allen Institute for AI (AI2) 2020, Facebook AI Research (FAIR) 2021.*

Reviewer, *NeurIPS 2016, 2023, ECCV 2018, 2024, CVPR 2018, 2019, 2021, 2023, 2024, ACCV 2018, AAAI 2021, ICCV 2021, 2023, ICLR 2023, 2024, ICML 2024, RA-L.*