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🎓 教育与学术经历

斯图加特大学，德国

2022.08 至今

博士后，合作导师：Prof. Andreas Bulling & Prof. Syn Schmitt

北京大学，中国

2017.09 – 2022.07

博士，计算机科学与技术专业，导师：汪国平教授

北京理工大学，中国

2013.09 – 2017.07

本科，光电信息科学与工程专业

🔍 研究方向

本人的研究方向包括人机交互、虚拟现实、眼动追踪、以及以人为中心的人工智能算法设计。长期的研究目标是建立一个以用户为中心的智能交互系统，以用来对人类在日常生活中的各种行为，例如眼睛运动、身体运动，进行准确的建模。

♡ 荣誉奖励

- INTERACT 2023 最佳学生论文奖提名，2023
- SimTech 博士后研究学者，2022
- 国家奖学金（前 2%），2021
- IEEE VR 2021 TVCG 最佳期刊论文奖提名（前 2%，国内首次），2021
- 国家留学基金委奖学金，2020
- 校长奖学金（前 2%），2020
- 廖凯原奖学金（前 5%），2019
- 领航奖学金（前 0.2%，7/3800），2017
- 国家奖学金（前 2%），2016
- 国家奖学金（前 2%），2014

⚙️ 学术活动

论文审稿

- 期刊：IMWUT, TiiS, T-MM, TVCG, IJHCI, MTAP
- 会议：SIGGRAPH Asia, CVPR, ICCV, ECCV, CHI, UIST, IEEE VR, ISMAR

会议组织

- ETRA 2024 虚拟化主席（Virtualization Chair）
- MuC 2023 副主席（Associate Chair）
- iWOAR 2023 程序委员会成员

学术讲座

- 眼动、身体运动、与场景的协调性研究，北京理工大学第十届“特立论坛”，主持人：王国仁教授，2023.11
- 虚拟现实环境中用户视觉注意的分析与预测，东南大学，主持人：丁玎教授，2022.06

- 沉浸式虚拟现实环境中基于眼动和头动信息的用户任务识别, IEEE VR 2022, 主持人: Kiyoshi Kiyokawa 教授, 2022.03
- 任务驱动虚拟现实场景中的用户注视预测, GAMES Webinar 2021, 主持人: 杨旭波教授, 2021.09
- 基于眼动头动协调性的注视预测模型, 2019 国际 VR/AR 暨三维显示大会, 主持人: 徐枫教授, 2019.06

🔧 教学经历

- 机器感知与学习, 斯图加特大学, 2022, 讲师
- 计算机图形学, 北京大学, 2018, 助教
- 基于图像和视频的三维重建, 北京大学, 2018 助教
- 编程基础, 北京大学, 2018, 助教

📖 发表文章

* 通讯作者

已发表

1. Chuhan Jiao, **Zhiming Hu***, Mihai Băce, and Andreas Bulling. SUPREYES: SUPer Resolution for EYES Using Implicit Neural Representation Learning. ACM Symposium on User Interface Software and Technology, 2023.
2. Guanhua Zhang, Matteo Bortoletto, **Zhiming Hu***, Lei Shi, Mihai Băce, Andreas Bulling. Exploring Natural Language Processing Methods for Interactive Behaviour Modelling. Proc. IFIP TC13 Conference on Human-Computer Interaction, 2023.
Best Doctoral Student Paper Award Nominees
3. Mayar Elfares, **Zhiming Hu**, Pascal Reiser, Andreas Bulling, Ralf Küsters. Federated Learning for Appearance-based Gaze Estimation in the Wild. Annual Conference on Neural Information Processing Systems. PMLR, 2023.
4. **Zhiming Hu**, Andreas Bulling, Sheng Li, Guoping Wang. EHTask: Recognizing User Tasks from Eye and Head Movements in Immersive Virtual Reality. IEEE Transactions on Visualization and Computer Graphics, 2023, 29(4): 1992-2004.
5. Zehui Lin, Xiang Gu, Sheng Li, **Zhiming Hu**, Guoping Wang. Intentional Head-Motion Assisted Locomotion for Reducing Cybersickness. IEEE Transactions on Visualization and Computer Graphics, 2022, 29(8): 3458-3471.
6. **Zhiming Hu**, Sheng Li, Meng Gai. Research progress of user task prediction and algorithm analysis (in Chinese). Journal of Graphics, 2021, 42(3): 367-375.
7. **Zhiming Hu**. Eye Fixation Forecasting in Task-Oriented Virtual Reality. Proceedings of the 2021 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops, 2021: 707-708.
8. **Zhiming Hu**, Andreas Bulling, Sheng Li, Guoping Wang. FixationNet: Forecasting Eye Fixations in Task-Oriented Virtual Environments. IEEE Transactions on Visualization and Computer Graphics, 2021, 27(5): 2681-2690.
TVCG Best Journal Award Nominees
9. **Zhiming Hu**. Gaze Analysis and Prediction in Virtual Reality. Proceedings of the 2020 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops, 2020: 543-544.
10. **Zhiming Hu**, Sheng Li, Congyi Zhang, Kangrui Yi, Guoping Wang, Dinesh Manocha. DGaze:

CNN-Based Gaze Prediction in Dynamic Scenes. *IEEE Transactions on Visualization and Computer Graphics*, 2020, 26(5): 1902-1911.

11. **Zhiming Hu**, Sheng Li, Meng Gai. Temporal continuity of visual attention for future gaze prediction in immersive virtual reality. *Virtual Reality & Intelligent Hardware*, 2020, 2(2): 142-152.
12. **Zhiming Hu**, Congyi Zhang, Sheng Li, Guoping Wang, Dinesh Manocha. SGaze: A Data-Driven Eye-Head Coordination Model for Realtime Gaze Prediction. *IEEE Transactions on Visualization and Computer Graphics*, 2019, 25(5): 2002-2010.

已提交

1. Chuhan Jiao, Yao Wang, Guanhua Zhang, **Zhiming Hu**, Andreas Bulling. DiffEM: A Diffusion Model of Eye Movement Generation for 360-degree Images. submitted to CVPR, 2023.
2. Mayar Elfares, Pascal Reisert, **Zhiming Hu**, Ralf Küsters, Andreas Bulling. PrivatEyes: Appearance-based Gaze Estimation Using Federated Secure Multi-Party Computation. submitted to ETRA, 2023.
3. Yao Wang, Yue Jiang, **Zhiming Hu**, Constantin Ruhdorfer, Mihai Bâce, Andreas Bulling. Vis-Recall++: Analysing and Predicting Visualisation Recallability from Gaze Behaviour. submitted to ETRA, 2023.
4. Haodong Yan, **Zhiming Hu**, Syn Schmitt, Andreas Bulling. GazeMoDiff: Gaze-guided Diffusion Model for Stochastic Human Motion Prediction. submitted to IEEE VR, 2023.
5. **Zhiming Hu**, Jiahui Xu, Syn Schmitt, Andreas Bulling. Pose2Gaze: Generating Realistic Human Gaze Behaviour from Full-body Poses using an Eye-body Coordination Model, submitted to IEEE VR, 2023.
6. Yao Wang, Weitian Wang, Abdullah Abdelhafez, Mayar Elfares, **Zhiming Hu**, Mihai Bâce, Andreas Bulling. SalChartQA: Question-driven Saliency on Information Visualisations. submitted to CHI, 2023.
7. Guanhua Zhang, **Zhiming Hu**, Mihai Bâce, Andreas Bulling. Mouse2Vec: Learning Reusable Semantic Representations of Mouse Behaviour. submitted to CHI, 2023.
8. **Zhiming Hu**, Syn Schmitt, Daniel Haeufle, and Andreas Bulling. GazeMotion: Gaze-Guided Human Motion Forecasting. submitted to AAAI, 2023.