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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, 计算机软件与理论专业, 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, Virtual Reality
- 会议: SIGGRAPH, CVPR, ICCV, ECCV, CHI, UIST, IEEE VR, ISMAR, ETRA

会议组织

- PETMEI 2024 程序委员会成员
- 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

- 以用户为中心的人工智能, 南京大学第 11 届诚耀青年学者论坛, 2023.12
- 用户感知智能交互系统, 北京大学计算机学院第五届青年论坛, 2023.12

- 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
- 数字人姿态协调性研究，北京大学计算机学院就业学术讲座，2022.11
- 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：丁珩教授，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

1. Yao Wang, Yue Jiang, **Zhiming Hu**, Constantin Ruhdorfer, Mihai Bâce, Andreas Bulling. Vis-Recall++: Analysing and Predicting Visualisation Recallability from Gaze Behaviour. Proc. ACM on Human-Computer Interaction (PACM HCI), 8 (ETRA), 2024.
2. Mayar Elfares, Pascal Reisert, **Zhiming Hu**, Wenwu Tang, Ralf Küsters, Andreas Bulling. PrivatEyes: Appearance-based Gaze Estimation Using Federated Secure Multi-Party Computation. Proc. ACM on Human-Computer Interaction (PACM HCI), 8 (ETRA), 2024.
3. Guanhua Zhang, **Zhiming Hu***, Mihai Bâce, Andreas Bulling. Mouse2Vec: Learning Reusable Semantic Representations of Mouse Behaviour. ACM SIGCHI Conference on Human Factors in Computing Systems, 2024. (CCF A)
4. Yao Wang, Weitian Wang, Abdullah Abdelhafez, Mayar Elfares, **Zhiming Hu***, Mihai Bâce, Andreas Bulling. SalChartQA: Question-driven Saliency on Information Visualisations. ACM SIGCHI Conference on Human Factors in Computing Systems, 2024. (CCF A)
5. Chuhan Jiao, **Zhiming Hu***, Mihai Bâce, and Andreas Bulling. SUPREYES: SUPer Resolution for EYES Using Implicit Neural Representation Learning. ACM Symposium on User Interface Software and Technology, 2023. (CCF A)
6. Guanhua Zhang, Matteo Bortoletto, **Zhiming Hu***, Lei Shi, Mihai Bâce, 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
7. Mayar Elfares, **Zhiming Hu**, Pascal Reisert, Andreas Bulling, Ralf Küsters. Federated Learning for Appearance-based Gaze Estimation in the Wild. Annual Conference on Neural Information Processing Systems. PMLR, 2023.
8. **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. (CCF A)

9. 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. (CCF A)
10. **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.
11. **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.
12. **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. (CCF A)
TVCG Best Journal Award Nominees
13. **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.
14. **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. (CCF A)
15. **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.
16. **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. (CCF A)