



胡志明

✉ cranehzm@gmail.com

☎ +XX XXXXXXXXXXXXX

🌐 <https://github.com/cranehzm>

🌐 <https://zhiminghu.net>

## 🎓 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 最佳学生论文提名
- SimTech 博士后研究学者，2022
- 国家奖学金（前 2%），2021
- IEEE VR 2021 TVCG 最佳期刊论文提名（前 2%，国内首次）
- 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

## ⚙️ 科研项目

- 混合现实中复杂任务的眼动行为和视觉注意机制与眼动预测，国家自然科学基金面上项目（排名 3/9）

## ⚙️ 学术活动

### 论文审稿

- 期刊：IMWUT, TiiS, TMM, TVCG, IJHCI, MTAP, VR, BRM
- 会议：SIGGRAPH, CVPR, ICCV, ECCV, CHI, UIST, IEEE VR, ISMAR, ETRA

### 会议组织

- AAAI 2025 程序委员会成员
- MuC 2024 副主席（Associate Chair）
- 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

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- 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

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\* 通讯作者 # 共同一作

1. Haodong Yan#, **Zhiming Hu**#, Syn Schmitt, Andreas Bulling. GazeMoDiff: Gaze-guided Diffusion Model for Stochastic Human Motion Prediction. Pacific Conference on Computer Graphics and Applications, 2024. (CCF B)
2. Guanhua Zhang, **Zhiming Hu**\*, Andreas Bulling. DisMouse: Disentangling Information from Mouse Movement Data via Diffusion Models. ACM Symposium on User Interface Software and Technology, 2024. (CCF A)
3. **Zhiming Hu**\*, Zheming Yin, Daniel Haeufle, Syn Schmitt, Andreas Bulling. HOIMotion: Forecasting Human Motion During Human-Object Interactions Using Egocentric 3D Object Bounding Boxes. IEEE Transactions on Visualization and Computer Graphics (ISMAR 2024 Journal-track), 2024. (CCF A)
4. **Zhiming Hu**\*, Syn Schmitt, Daniel Haeufle, Andreas Bulling. GazeMotion: Gaze-guided Human Motion Forecasting. Proceedings of the 2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024. (CCF C, Oral)
5. **Zhiming Hu**\*, Jiahui Xu, Syn Schmitt, Andreas Bulling. Eye-body Coordination during Daily Activities for Gaze Prediction from Full-body Poses. IEEE Transactions on Visualization and Computer Graphics, 2024. (CCF A)
6. 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.
7. Mayar Elfares, Pascal Reisert, **Zhiming Hu**, Wenwu Tang, Ralf Küsters, Andreas Bulling. Pri-

- vatEyes: Appearance-based Gaze Estimation Using Federated Secure Multi-Party Computation. Proc. ACM on Human-Computer Interaction (PACM HCI), 8 (ETRA), 2024.
8. Guanhua Zhang, **Zhiming Hu\***, Mihai Băce, Andreas Bulling. Mouse2Vec: Learning Reusable Semantic Representations of Mouse Behaviour. ACM SIGCHI Conference on Human Factors in Computing Systems, 2024. (CCF A)
  9. Yao Wang, Weitian Wang, Abdullah Abdelhafez, Mayar Elfares, **Zhiming Hu\***, Mihai Băce, Andreas Bulling. SalChartQA: Question-driven Saliency on Information Visualisations. ACM SIGCHI Conference on Human Factors in Computing Systems, 2024. (CCF A)
  10. Chuhan Jiao, **Zhiming Hu\***, Mihai Băce, Andreas Bulling. SUPREYES: SUPER Resolution for EYES Using Implicit Neural Representation Learning. ACM Symposium on User Interface Software and Technology, 2023. (CCF A)
  11. 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***

12. 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.
13. **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)
14. 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)
15. **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.
16. **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.
17. **Zhiming Hu**, Andreas Bulling, Sheng Li, Guoping Wang. FixationNet: Forecasting Eye Fixations in Task-Oriented Virtual Environments. IEEE Transactions on Visualization and Computer Graphics (IEEE VR 2021 Journal-track), 2021, 27(5): 2681-2690. (CCF A)

***TVCG Best Journal Award Nominees***

18. **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.
19. **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 (IEEE VR 2020 Journal-track), 2020, 26(5): 1902-1911. (CCF A)
20. **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.
21. **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 (IEEE VR 2019 Journal-track), 2019, 25(5): 2002-2010.

**(CCF A)**