Zhiming (Jimmy) Hu

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🎓 Education

Peking University, Beijing, China   *Sept. 2017 – July 2022*
PhD in Computer Science

Beijing Institute of Technology, Beijing, China   *Sept. 2013 – July 2017*
B.Eng. in Optical Engineering

⚗ Research Interest

My research interest includes virtual reality, visual attention, human-computer interaction, and eye tracking. The topic of my PhD research is analysis and prediction of human visual attention in virtual reality. Specifically, we studied the characteristics of human visual attention when exploring the virtual world and proposed some novel gaze prediction models.

🔖 Publications

- 1st **Author** Research progress of user task prediction and algorithm analysis (in Chinese)[J]. Journal of Graphics, 2021, 42(3): 367-375.
- 1st **Author** Eye Fixation Forecasting in Task-Oriented Virtual Reality[C]. In 2021 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). IEEE, 2021: 707-708.
- 1st **Author** FixationNet: Forecasting Eye Fixations in Task-Oriented Virtual Environments[J]. IEEE Transactions on Visualization and Computer Graphics, 2021, 27(5), 2681-2690.
- 1st **Author** Gaze Analysis and Prediction in Virtual Reality[C]. In 2020 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). IEEE, 2020: 543-544.
- 1st **Author** DGaze: CNN-Based Gaze Prediction in Dynamic Scenes[J]. IEEE Transactions on Visualization and Computer Graphics, 2020, 26(5): 1902-1911.
- 1st **Author** Temporal continuity of visual attention for future gaze prediction in immersive virtual reality[J]. Virtual Reality & Intelligent Hardware, 2020, 2(2): 142-152.
- 1st **Author** SGaze: A Data-Driven Eye-Head Coordination Model for Realtime Gaze Prediction[J]. IEEE Transactions on Visualization and Computer Graphics, 2019, 25(5): 2002-2010.

♡ Awards

- TVCG Best Journal Nominees Award, 2021
- CSC (China Scholarship Council) Scholarship, 2020
- Second-Class Scholarship of Peking University, 2020
- Merit Student Prize in Peking University, 2020
- Chancellor's Scholarship, 2020
- Leo KoGuan Scholarship, 2019
- Hongcai Scholarship, 2019
- Merit Student Prize in Peking University, 2019
- Hongcai Scholarship, 2017
- Leader Scholarship, 2017
- Outstanding Graduates Prize in Beijing Institute of Technology, 2017
- National Scholarship, 2016
- Honorable Mention of Mathematical Contest In Modeling, 2016
- National Encouragement Scholarship, 2015
- Pacemaker to Merit Student Prize in Beijing Institute of Technology, 2014
- National Scholarship, 2014

👥 Professional Service

- Peer Reviewer for IEEE VR, ISMAR, CAD&CG, IMWUT, UbiComp, and ICCV.

⚙ Skills

- Programming Languages: C/C++, MATLAB, Python
- Languages: Mandarin (native), English (TOEFL 98)