Zhenhui Peng

✉ zpengab@connect.ust.hk · ☎ (+86) 15850781576 · % http://zhenhuipeng.com/

Employment / Education

Postdoctoral Researcher: School of Electronic Engineering, Aalto University 2021.04 - 2021.10
- Advisor: Antti Oulasvirta

Ph.D.: Computer Science, The Hong Kong University of Science and Technology 2017.08 - 2021.03
- Advisor: Xiaojuan Ma

B.Sc.: Electronic and Computer Engineering, Nanjing University 2013.08 - 2017.07

Research Interests

- Human-Computer Interaction: robot and virtual agent, support tools for writing or design, intelligent tutoring systems
- Computer Supported Cooperative Work: understanding and facilitating online communication

Internship & Exchange Experience

- **Visiting Student:** Tsinghua University, Pervasive Computing Lab 2020.11 - 2021.01
- **Research Intern:** WeBank, AI Group, Algorithm Engineer 2019.09 - 2020.01

Publications

17. **Zhenhui Peng**, Chuhan Shi, Xiaojuan Ma. "Exploring User Experience and Design Opportunities of Desktop Social Virtual Reality for Group Learning Activities", in *ChineseCHI 2021 Late-Breaking Work*

16. Quan Li, Haipeng Zeng, **Zhenhui Peng**, Xiaojuan Ma. "Understanding Players' Interaction Patterns with Mobile Game App UI via Visualizations", in *ChineseCHI 2021* (**Best Paper Award**)

15. Mingfei Sun, **Zhenhui Peng**, Meng Xia, Xiaojuan Ma. "Investigating the Effects of Robot Engagement Communication on Learning from Demonstration", in *International Journal of Social Robotics* 2021.

14. **Zhenhui Peng**, Xiaojuan Ma, Diyi Yang, Ka Wing Tsang, and Qingyu Guo. "Effects of Support-Seekers' Community Knowledge on Their Expressed Satisfaction with the Received Comments in Mental Health Communities", in *Proc. ACM CHI2021 Conference on Human Factors in Computing Systems*.

13. Liuping Wang, Dakuo Wang, Feng Tian, **Zhenhui Peng**, Xiangmin Fan, Zhan Zhang, Mo Yu, Xiaojuan Ma, and Hongan Wang. "CASS: Towards Building A Social Support Chatbot For An Online Health Community", *Proceedings of the ACM on Human-Computer Interaction, CSCW (2021)*

12. **Zhenhui Peng**. "Designing and Evaluating Intelligent Agents' Interaction Mechanisms for Assisting Human in High-Level Thinking Tasks", in *Extended Abstracts of ACM CHI2021 Conference on Human Factors in Computing Systems, Doctoral Consortium*.

11. Quan Li, Huanbin Lin, Chunfeng Tang, Xiguang Wei, **Zhenhui Peng**, Xiaojuan Ma and Tianjian Chen. "Exploring the "Double-Edged Sword" Effect of Auto-Insight Recommendation in Exploratory Data Analysis", in *Fourth IUI Workshop on Exploratory Search and Interactive Data Analytics (ESIDA'21)*.

10. Ziming Wu, Qianrao Xu, Yiding Liu, **Zhenhui Peng**, Yingqing Xu, and Xiaojuan Ma. "Exploring Designers' Practice of Online Example Management for Supporting Mobile UI Design", in *Proc. ACM MobileHCI 2021 International Conference on Mobile Human-Computer Interaction*.

9. **Zhenhui Peng**, Qingyu Guo, Ka Wing Tsang, and Xiaojuan Ma. "Exploring the Effects of Technological Writing Assistance for Support Providers in Online Mental Health Community", in *Proc. ACM CHI2020 Conference on Human Factors in Computing Systems*.

8. **Zhenhui Peng**, Kaixiang Mo, Xiaogang Zhu, Junlin Chen, Zhijun Chen, Qian Xu and Xiaojuan Ma. "Understanding User Perceptions of Robot's Delay, Voice Quality-Speed Trade-off and GUI during Conversation", in *Extended Abstracts of ACM CHI2020 Conference on Human Factors in Computing Systems*.

7. Quan Li, **Zhenhui Peng**, Haipeng Zeng, Qiaoan Chen, Lingling Yi, Ziming Wu, Xiaojuan Ma, and Tianjian Chen. "Friend Network as Gatekeeper: A Study of WeChat Users' Consumption of Friend-Curated Contents", in *Eighth International Workshop of Chinese CHI2020*.

6. Qiangqiang Liu, Quan Li, Chunfeng Tang, Huanbin Lin, **Zhenhui Peng**, Zhiwei Li, and Tianjian Chen. "Visual Analysis of the Traffic Reimbursement Data for the Overtime", in *EuroVIS 2020 Poster*.

5. **Zhenhui Peng** and Xiaojuan Ma. "A Survey on Construction and Enhancement Methods in Service Chatbots Design", In *CCF Transactions on Pervasive Computing and Interaction (2019)*.

4. **Zhenhui Peng**, Yunhwan Kwon, Jiaan Lu, Ziming Wu, and Xiaojuan Ma. "Design and Evaluation of Service Robot's Proactivity in Decision Making Support Process", in *Proc. ACM CHI2019 Conference on Human Factors in Computing Systems*.

3. Taewook Kim, Jungsoo Lee, **Zhenhui Peng**, and Xiaojuan Ma. "Love in Lyrics: An Exploration of Supporting Textual Manifestation of Affection in Social Messaging", *Proceedings of the ACM on Human-Computer Interaction, CSCW (2019)* .

2. **Zhenhui Peng**, Taewook Kim and Xiaojuan Ma. "GremoBot: Exploring Emotion Regulation in Group Chat", in *2019 Computer Supported Cooperative Work and Social Computing Companion Publication (CSCW '19 Companion)*.

1. **Zhenhui Peng**, Jeehoon Yoo, Meng Xia, Sunghun Kim, and Xiaojuan Ma. "Exploring How Software Developers Work with Mention Bot in GitHub", in *Proceeding of the Sixth International Symposium of Chinese CHI (2018)*.

Teaching & Academic Experience

- **Teaching Assistant (HKUST)**: COMP4461 Human-Computer Interaction (2018&2020 Fall), COMP3711 Design and Analysis of Algorithms (2020 Spring), Computer Organization (2018 Spring)
- **Reviewers**: CHI 2018&2020&2021&2022, CHI-LBW 2020, WWW 2020, CSCW 2020&2021

TALKS

- "Understanding and Facilitating Online Communication: the Roles and Challenges of AI". In HKUST VisLab. 2021.10, online
- "Designing and Evaluating Intelligent Agents' Interaction Mechanisms for Assisting Human in High-Level Thinking Tasks". In CHI Doctoral Consortium. 2021.05, online.
- "Exploring Future Design of Technological Assistance for Human Kinds in Online Mental Health Communities". In International Workshop on Human-Engaged Computing (IWHEC). 2021.03, online.
- "Research Practices in Human Agent Interaction and Social Computing". In Fudan-Guanghua International Forum for Young Scholars Sub-Forum of Computer Science. 2021.01, online.

- "Exploring the Effects of Technological Writing Assistance for Support Providers in Online Mental Health Community". In HHME Thesis Communication. 2020.10, Chongqing.
- "Design and Evaluation of Conversational Agents in Human-Engaged Computing". In ChinaCHI Summer School. 2019.07, Nanjing.

HONORS

- Postgraduate Scholarship in the Hong Kong University of Science and Technology (HKUST) 2017 - 2021
- HKUST SENG Academic Award for Top Continuing PhD Students   2019 - 2020
- Outstanding Graduate, Nanjing University   2017
- Intel Cup Undergraduate Electronic Embedded System Design Invitation Contest (first-class)   2016
- Xing Quan Ze Ren Scholarship (first-class), Nanjing University   2016
- Outstanding Student, Nanjing University   2016
- People's Scholarship (first-class), Nanjing University   2015
- People's Scholarship (second-class), Nanjing University   2014