

ZHENHUI PENG

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EDUCATION / EMPLOYMENT

- Postdoctoral Researcher: School of Electronic Engineering, Aalto University** 2021.04 - present
- 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
- Minor: Finance

RESEARCH INTEREST & EXPERIENCE

Human-Computer Interaction (HCI), Human-Robot Interaction (HRI), Social Computing

- Bots for facilitating human-human communication online, e.g., Reddit, Slack, GitHub

- Develop and evaluate MepsBot that can offer in-situ feedback on writing performance and suggest similar, high-quality examples to support-providers who are drafting comments under the help-seeking posts in an online mental health community –Reddit r/depression; Published in **CHI 2020**.
- Help to develop a system that recommends romantic expression from a lyric dataset for couples to chat online; Published in **CSCW 2019**.
- Develop and evaluate a chatbot for detect and regulate members' emotion in group chat in Slack; Published in **CSCW 2019 Poster**.
- Investigate software developers' experience and needs of Facebook mention-bot for reviewer recommendation in GitHub; Published in **ChineseCHI 2018 poster**.

- Robots/Chatbots for assisting users in daily life, e.g., shopping, reading, entertainment

- Evaluate user's perception towards a robot with a certain response delay in the context of chitchat and information retrieval; Published in **CHI 2020 Late-Breaking Work**.
- Propose an anticipation-autonomy policy framework to model service robot's proactivity in decision-making support contexts; Published in **CHI 2019**.

- Analysis of interaction data in social media

- Statistically analyze how support-seekers' satisfaction with the received comment is affected by their posting experience, post content and the received comment's content in online mental health communities. Conditionally accepted by **CHI 2021**.

INTERNSHIP & EXCHANGE EXPERIENCE

- **Tsinghua University, Pervasive Computing Lab, Intelligent Human-Computer Interaction Research Center, Exchange Student** 2020.11 - 2021.01
- **WeBank, AI Group, Algorithm Engineer, Research Intern** 2019.09 - 2020.01

PUBLICATIONS

1. **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 Proceedings **CHI 2021**.

2. 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”, in **CSCW 2021**.
3. 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 **ESIDA’21** (IUI 2021 Workshops)
4. **Zhenhui Peng**. “Designing and Evaluating Intelligent Agents’ Interaction Mechanisms for Assisting Human in High-Level Thinking Tasks”, in **CHI 2021 Doctoral Consortium**.
5. **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 Proceedings of **CHI 2020**.
6. **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 **CHI 2020 Late-Breaking Work**.
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 Proceedings of **ChineseCHI 2020**.
8. 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**.
9. Mingfei Sun, **Zhenhui Peng**, Meng Xia, Xiaojuan Ma. “Investigating the Effects of Robot Engagement Communication on Learning from Demonstration”, in arXiv preprint 2020.
10. **Zhenhui Peng** and Xiaojuan Ma. “A Survey on Construction and Enhancement Methods in Service Chatbots Design”, In CCF Transactions on Pervasive Computing and Interaction.
11. **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 Proceedings of **CHI 2019**.
12. Taewook Kim, Jungsoo Lee, **Zhenhui Peng**, and Xiaojuan Ma. “Love in Lyrics: An Exploration of Supporting Textual Manifestation of Affection in Social Messaging”, in **CSCW 2019**.
13. **Zhenhui Peng**, Taewook Kim and Xiaojuan Ma. “GremoBot: Exploring Emotion Regulation in Group Chat”, in **CSCW 2019 Poster**.
14. **Zhenhui Peng**, Jeehoon Yoo, Meng Xia, Sunghun Kim, and Xiaojuan Ma. “Exploring How Software Developers Work with Mention Bot in GitHub”, in **ChineseCHI 2018**.

TEACHING & ACADEMIC EXPERIENCE

- **Teaching Assistant in the Hong Kong University of Science and Technology**: COMP4461 Human-Computer Interaction (2018&2020 Fall), COMP3711 Design and Analysis of Algorithms (2020 Spring), Computer Organization (2018 Spring)
- **Reviewers**: CHI 2018&2020&2021, CHI-LBW 2020, WWW 2020, CSCW 2020&2021

TALKS

- “Designing and Evaluating Intelligent Agents’ Interaction Mechanisms for Assisting Human in High-Level Thinking Tasks”. In CHI Doctoral Consortium. 2021/5/7, online.
- “Exploring Future Design of Technological Assistance for Human Kinds in Online Mental Health Communities”. In International Workshop on Human-Engaged Computing (IWHEC). 2021/3/21, online.
- “Research Practices in Human Agent Interaction and Social Computing”. In Fudan-Guanghua International Forum for Young Scholars Sub-Forum of Computer Science. 2021/1/19, online.

- “Exploring the Effects of Technological Writing Assistance for Support Providers in Online Mental Health Community”. In HHME Thesis Communication. 2020/10/17, Chongqing.
- “Design and Evaluation of Conversational Agents in Human-Engaged Computing”. In ChinaCHI Summer School. 2019/7/22, 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