Sark Pangrui Xing | CV

About Me

Name **Sark**, Pangrui Xing.

Contact sark.xing@connect.polyu.hk

Research Portal Google Scholar, ResearchGate, Portfolio

Social Media Twitter, Linkedin, Github

Profession **Interaction Designer**, HCI Researcher, 28 years old.

I am independent, proactive, and able to play different roles within projects. I have a deep affinity with applying state of the art technologies in designing interactive products, systems. I tend to adopt a hands-on and material/user-centered approach in the study, focusing on a view of contexts with new materials and technologies, and evaluating concepts in-situ to inform design- iterations and knowledge. I strive to bring external HCI knowledge and technologies from material science and computer science to the creation of materiality practices from a designerly perspective. I possess the skill sets (e.g., rapid prototyping, user evaluation, and analysis techniques, etc.) to generate, develop, and evaluate novel interaction design with aesthetics and value.

Education

2021 - Present **PhD. Candidate, The Hong Kong Polytechnic University**, *Hong Kong SAR.*

Specializing in Designing interactive materiality for everyday activities.

2018 - 2020 **M.Sc. in Industrial Design, Eindhoven University of Technology**, *Eindhoven, The Netherlands.*

Specialized in designing interactive systems, products and investigated theories in the field of Human-Computer Interaction.

2014 - 2018 **B.Eng. in Industrial Design, Beijing Normal University, Zhuhai**, *Zhuhai, China.*

Specialized in acquiring hands-on prototyping skills and developing classic and/or interactive products.

Research Interests

- Material-Driven Interaction, Interactive Materiality, Tangible Interaction, Shape-changing
- Prototyping, Fabrication, Making

Journals

[J1] Fang, L., **Xing, S.P.**, Ma, Z., Zhang, Z., Long, Y., Lee, K. and Wang, S.J., (2023). Emo-MG Framework: LSTM-based Multi-modal Emotion Detection through Electroencephalography Signals and Micro Gestures, *Int. J. Hum.–Comput. Interact., SCI, CS Q1, CCF-B. IF=4.92*, DOI

[J2] Fang, L., **Xing, S.P.**, Long, Y., Lee, K. & Wang, S.J., (2023). EmoSense: Revealing True Emotions Through Microgestures, *Adv. Intell. Syst. 2300050, SCI, CS Q1, IF=7.4*, DOI

Conferences

[C1] **Xing, S.P.**, Van Dijk, B., An, P., Bruns, M., Chuang, Y., & Wang, S.J., (2023). Puffy: A step-by-step guide to craft bio-inspired artifacts with interactive materiality, In *Proceedings of the Seventeenth International Conference on Tangible, Embedded, and Embodied Interaction*, **(TEI '23)**, *(CORE'21 A, 26% Acceptance Rate)*, DOI

Talks & Workshops

[T1] **Xing, S.P.**, Fang, L, & Wang, S.J., (2022). Emo-sense Band: Capacitive Sensing Wristband that Detects Micro-gesture for Stress Recognition. *the Outstanding Study Award of the International Conference on Intelligent Wearable Systems (ICIWS 2022)*

[W1] **Xing, S.P.**,& Chuang, Y. (2021). ESPBoost: A Rapid Prototyping Toolkit for Helping Designers Create the Internet of Tangible Things. In *Proceedings of the 2021 Workshops on Computer Human Interaction in IoT Applications co-located with the International Conference on Embedded Wireless Systems and Networks (EWSN 2021) and the 13th ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS 2021)*, PDF

Patents

[P2] Xing, P. 2017. Folded paper toy kit. *CN 206,404,327 U, filed Dec 26, 2016, and issued August 15, 2017*

[P1] Xing, P. 2017. The driver for folded paper toy kit. *ZL 201630571980.0 , filed Nov 24, 2016, and issued June 20, 2017*

Awards

Exhibition **2019 Dutch Technology Week**, *Strijp S, Eindhoven, the Netherlands.*

Award **2018 Excellent Departmental Graduate**, *achieved 88/100.*

Short-listed Award 2016 China Universities Industrial Design Competition

Silver Award **2016 DiD Award (Dongguan Cup)**, *50,000 RMB cash prize.*

Exhibition 2016 8th Guangdong Industrial Design Expo

Exhibition 2016 2nd Biennale of The Guangdong College Design Works

Scholarship 2016 1st Prize Scholarship *#1 ranked candidate in the department*

Academic & Community Services

Reviewers

2024 TEI 24' WiP

2023 CSCW Poster; DIS PWiP, DIS Paper, HCII

Teaching Assistant

Spring 2023 SD5514: Advanced Visualization and Interaction, *(Graduate Level)*

Fall 2021 SD5969: Transformative Technologies, *(Graduate Level)*

Languages

Native Madarin

Native Hokkien

Fluent English

Basic Cantonese