

Sark Pangrui Xing | CV

Personal

Name **Sark**, Pangrui Xing.
Contact PolyU
Research Portal Google Scholar, ResearchGate, Homepage
Social Media Twitter, LinkedIn, Github
Profession **Interaction Designer**, HCI Researcher, 27 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 am keen to bring Tangible Interactions into Internet of Things in the context of everyday life. 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. Researcher, 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

- Materiality of Interaction, Interactive Materiality, Tangible Interaction
- Prototyping, Fabrication, Making

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)*, (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*

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

Skills

- Front-end **HTML/CSS**, JavaScript.
- Back-end **Arduino(C/C++)**, Processing, Linux/Unix script.
- Database **OOCSI(data foundry)**, **Firestore Realtime Database**.
- Prototyping **Electronics, Foam/Laser-cut/3D modelling**, Sketching, GUI Mock-up, PCB Design.
- User Evaluation **Wizard of Oz**, Field Study, Semi-structured Interview, Thematic Analysis.
- Computer-aid Design **Photoshop, SolidWorks, Keyshot, Illustrator**, InDesign, Lightroom, Final Cut Pro.

Interests

- Running Statistics: over 3,500 km, '21 1/4 Virtual Marathon Rotterdam@HK, '20 1/4 Virtual Marathon Rotterdam@Eindhoven, '19 Haft Marathon Eindhoven, '19 Semi Marathon Paris, '19 Haft Marathon Eindhoven
- Swimming Freestyle, Breaststroke, Butterfly Stroke
- Opensource ESPBoost, PC Build Project, Light Messenger, Q and I, Puffy