Lichao Shen

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INTERESTS

Human-Computer Interaction

Human Augmentation, User Interface, Virtual Reality, Haptics, Robotics, Wearable, Design

EDUCATION

Master.

2015 – 2018 Keio University, tokyo, japan

- Human-Computer Interaction, Graduate School of Media Design.
- GPA: 3.84 / 4.33, English Instruction.
- Thesis: *Visual Expansion by Animal-Inspired Visuomotor Modification.*
- Advisor: Prof. Kouta Minamizawa, Co-advisor: Prof. Kai Kunze.

Master Exchange Program.

2017 Pratt Institute, brooklyn, us

2016 Royal College of Art, london, uk

2016 Imperial College London, london, uk

- Global Innovation Design, School of Design.

Bachelor.

2010 – 2014 Beihang University, beijing, china

- Industrial Design, School of Mechanical Engineering.
- GPA: 3.6 / 4.0, Outstanding Graduate.

RESEARCH EXPERIENCE

Research Intern. Altered Reality Group.

2020 Rochester Institute of Technology, remote

- Director: Prof. Roshan Peiris.
- Finalized the user study of visuomotor research and thermal sensation.

Research Intern. Empathic Computing Lab.

2019 University of Auckland, auckland, new zealand

- Director: Prof. Mark Billinghurst.
- Developed applications for telepresence and remote access on standalone mobile devices.
- Designed and advised the prototypes for commercialization of remote collaboration and XR tech.
- Explored on new interfaces including brain-computer interfaces.

Research Intern. Embodied Media Project.

2018   Keio University, tokyo, japan

- Director: Prof. Kouta Minamizawa.
- Research on themes of haptic design, telexistence, virtual reality, and sensory augmentation.
- Developed experiments, prototypes and applications with technologies including VR/AR, EEG, EMG, EMS, eye-tracking, and wearable computing.

PROFESSIONAL EXPERIENCE

Product Manager.

2019 - now   China Mobile Shanghai Research, beijing, china

- Researched on solutions in information and communication technology, and transportation industry including internet of vehicle, autonomous driving, vehicle to everything (V2X), etc.
- Managed the product line of on-board electronics, and engaged in the process of business analysis, design refinement, factory manufacture, and software development.
- Designed, developed, and patented new products and applications, to business and to customer.

User Experience Design Intern.

2013 - 2014   Lenovo Research, beijing, china

- Conducted user research towards various types of consumer electronics, including laptop, tablet, phone, and other new forms, in User Research Center.
- Developed the preliminary design of the next generation smart devices.

PUBLICATIONS

2020   **Lichao Shen**, MHD Yamen Saraiji, Kai Kunze, Kouta Minamizawa, and Roshan Lalintha Peiris. 2020. Visuomotor Influence of Attached Robotic Neck Augmentation. In *Symposium on Spatial User Interaction* (SUI '20). ACM, New York, NY, USA, Article 14, 1–10. DOI:https://doi.org/10.1145/3385959.3418460

2018   MHD Yamen Saraiji, Roshan Lalintha Peiris, **Lichao Shen**, Kouta Minamizawa, and Susumu Tachi. 2018. Ambient: Facial Thermal Feedback in Remotely Operated Applications. In *Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI EA '18). ACM, New York, NY, USA, Paper D321, 1–4. DOI:https://doi.org/10.1145/3170427.3186483

2018   **Lichao Shen**, MHD Yamen Saraji, Kai Kunze, and Kouta Minamizawa. 2018. *Unconstrained Neck: Omnidirectional Observation from an Extra Robotic Neck*. In Proceedings of the 9th Augmented Human International Conference (AH '18). ACM, New York, NY, USA, Article 38, 1–2. DOI:https://doi.org/10.1145/3174910.3174955
[Best Demo Award]

2020   **CN Patent**, A System of Vehicle to Everything [accepted]

2020   **CN Patent**, An On-Board Project Device [pending]

EXHIBITIONS

2014   **Auto China 2014**, (13th Beijing International Automobile Exhibition), *AERO* Racing Car

2013   ***City, Museum, Tokyo* Design Show**, *Hahaki* Postcard System

HONORS

2018   **Best Demo Award** (Top 1), 2018 Augmented Human 9th International Conference

2013   **Design Excellent Prize**, *Gifts of Fuyang* Design Competition

2013   **Finalist**, Red Dot Design Award

2011   **Second Prize**, *Fengru Cup* Student Innovation Competition

2014   **Outstanding Graduate**

2013   **Outstanding Student Leader**

2011   **Merit Student**

2013   **Scholarship of Academic Performance** (successive 3 years)

2013   **Scholarship of Social Duty**

2011   **Scholarship of Science and Technology Competition**

SKILLS

Programming
C, C#, Python, JavaScript, HTML, CSS, Git, TEX, (Arduino, Processing, Unity, Jupyter)

Design
Sketch, Paint, Prototyping, Fabrication (3D printer, laser cutter, wood, metal, plastic), Graphic Editing, 3D Modeling, Rendering (Photoshop, Illustrator, Premiere, 3Ds Max, Rhinoceros, Grasshopper, KeyShot, V-Ray, Sketch)

Engineering
Technical Drawing, Machine Operation, Mechanical Design (SolidWorks, Pro/Engineer, AutoCAD)

Languages
English (proficient), Japanese (basic), Chinese (native)