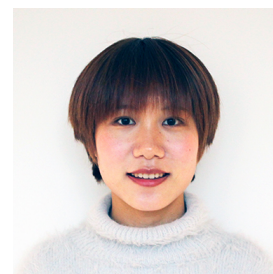# Xiyue Wang

Research Institute of Electrical Communication, Tohoku University
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xwang@riec.tohoku.ac.jp | https://xiyue-w.github.io/

RESEARCH INTERESTS

Human-Computer Interaction; Tangible User Interfaces; Ubiquitous Computing; Affective Computing; Sensor Data Processing; Data Analytics; Machine Learning; Deep Learning; Health Care Information Systems

EDUCATION

10/2018-9/2021	**Tohoku University** Ph.D. in Information Science, Interactive Content Design Lab Adviser: Prof. Yoshifumi Kitamura	Sendai, Miyagi, JAPAN
10/2016-9/2018	**Tohoku University** Master of Information Science, Interactive Content Design Lab Adviser: Prof. Yoshifumi Kitamura	Sendai, Miyagi, JAPAN
8/2012-5/2015	**Columbus College of Art & Design** Bachelor of Fine Arts, GPA: 3.873 Major: Fine Arts, Minor: 3D Animation, Industrial Design, Illustration Honors: Honor Student, Summa Cum Laude	Columbus, OH, U.S.A
8/2011-5/2012	**Columbus College of Art & Design** Exchange student, Major: Illustration	Columbus, OH, U.S.A
9/2009-7/2011	**Xian Academy of Fine Arts** Bachelor of Fine Arts, Major: Oil Painting (transferred out)	Xian, Shaanxi, CHINA

WORK EXPERIENCE

10/2019-2/2020	**Master Level Course: Big Data Challenge** Teaching Assistant • Instructor of a group of two Ph.D students and one Master students • Project: Discover the characteristics and behaviors of the users from mobile phone data	Sendai, Miyagi, JAPAN
4/2019-9/2019	**Bachelor Level Course: Pattern Recognition** Teaching Assistant • Instructor of the laboratory courses of Neural Network	Sendai, Miyagi, JAPAN
9/2015-5/2016	**Game Dive LTD** Game Designer and Animator • Illustrator and animator of League of Legends guide game: Towel Dive	Columbus, OH, U.S.A
2/2015-4/2015	**Trident Design** Industrial Design Intern • Ideated and prototyped Spatulove-A Spatula Glove	Columbus, OH, U.S.A

PROFESSIONAL EXPERIENCE

4/2020-3/2022	**Japan Society for the Promotion of Science** (JSPS) Research Fellowship (DC2)
8/2020-5/2021	**ACM CHI 2021** Student Volunteer Chair (Local Support)
9/2018-5/2019	**ACM CHI 2019 Asian CHI Symposium** Organizer

7/2020-6/2021   **Sendai Dynamic Speakers (Toastmaster Club)** Vice President of Public Relations

7/2019-6/2020   **Sendai Lunch Speakers (Toastmaster Club)** Vice President of Public Relations

SKILLS

Language Skills
- Chinese: Native
- English: Professional proficiency; TOEIC 975/990 (2018); TOEFL iBT score 102/120 (2015)
- Japanese: Conversational proficiency; JLPY N1 117/180 (2019)

Computer Skills
- Languages: Python, C#, Java
- Platform/libraries: Unity3D, TensorFlow 2.0, Android SDK, OpenCV
- Design: web design, poster design, SolidWorks, Adobe creative suits

PUBLICATIONS

Journal and International Conference Full Papers (peer-reviewed)
- Can Playing with Toy Blocks Reflect Behavior Problems in Children?
  Xiyue Wang, Kazuki Takashima, Tomoaki Adachi, Yoshifumi Kitamura
  Proceedings of CHI '21: Proceedings of the SIGCHI conference on Human Factors in Computing Systems (to appear)

- AssessBlocks: Exploring Toy Block Play Features for Assessing Stress in Young Children after Natural Disasters
  Xiyue Wang, Kazuki Takashima, Tomoaki Adachi, Patrick Finn, Ehud Sharlin, Yoshifumi Kitamura
  Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Volume 4, Issue 1. March 2020

- SpotlessMind: A Design Probe for Eliciting Attitudes towards Sharing Neurofeedback
  Passant Elagroudy, **Xiyue Wang**, Evgeny Stemasov, Teresa Hirzle, Svetlana Shishkovets, Siddharth Mehrotra, Albrecht Schmidt. AHs '20: Proceedings of the Augmented Humans International Conference

International Conference Posters and Demonstrations (peer-reviewed)
- An Investigation of Electrode Design for Physical Touch Extensions on a Capacitive Touch Surface
  Xiyue Wang, Kaori Ikematsu, Kazuyuki Fujita, Kazuki Takashima, Yoshifumi Kitamura
  UIST '19: The Adjunct Publication of the 32nd Annual ACM Symposium on User Interface Software and Technology.

- Designing Action-Characterizing Toy Blocks for Behavior Assessments
  Xiyue Wang, Miteki Ishikawa, Kazuki Takashima, Tomoaki Adachi, Ehud Sharlin, Patrick Finn, Yoshifumi Kitamura
  CHI EA '18: Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems

- Children's Blocks: Machine Learning and the Analysis of Motion During Play
  Xiyue Wang, Miteki Ishikawa, Kazuki Takashima, Tomoaki Adachi, Patrick Finn, Ehud Sharlin, Yoshifumi Kitamura
  CHI'18 Asian CHI Symposium 2018 ***Best Demo/Poster Award***

Symposiums (without peer review)
- Activity-Characterizing Toy Blocks for Behavioral Assessments
  Xiyue Wang, Miteki Ishikawa, Kazuki Takashima, Tomoaki Adachi, Ehud Sharlin, Yoshifumi Kitamura
  4th Ensemble Workshop for Young Researchers at Tohoku University. Sendai, Japan 2018 ***Best Poster Award***

- Machine Learning Enhanced Novel Sensing with Smart Toy Blocks for Children's Action Recognition
  Xiyue Wang, Kazuki Takashima, Tamoaki Adachi, Yoshifumi Kitamura
  International Kick-off Symposium of Graduate Program in Data Science. Sendai, Japan 2018

Invited Talks
- Xiyue Wang: The Block Project – Exploring Toy Blocks as a Tangible User Interface
  Interaction Lab, University of Calgary. Calgary, Alberta, Canada 2018

AWARDS

10/2018 **1ST Place Winner** Symbiotic Mindfulness-An Collaborative Artistic Mind-Sharing Experience
BR41N.IO Brain-Computer Interface Designers Hackathon at the 2018 UIST school in Berlin, Germany

7/2018 **Best Poster Award** Activity-Characterizing Toy Blocks for Behavioral Assessment
4th Ensemble Workshop for Young Researchers, Tohoku University, 2018

4/2018 **Best Poster/Demo Award** Children's Blocks: Machine Learning and the Analysis of Motion During Play
Asian CHI symposium: Emerging HCI Research Collection in ACM CHI 2018
(Conference on Human Factors in Computing Systems) in Montreal, Canada

2012-2015 **President's List (four consecutive years)**
Columbus College of Art & Design, Columbus OH, U.S.A

8/2012 **Merit Scholarship**
Columbus College of Art & Design, Columbus OH, U.S.A

8/2011 **Second Prize Scholarship**
Xian Academy of Fine Arts, Xian, Shaanxi, CHINA

ACADEMIC SERVICES

Reviewer
- TEI 2021: The 15th ACM International Conference on Tangible, Embedded and Embodied Interaction
- CHI 2019: The ACM Conference on Human Factors in Computing Systems
- IEEE VR 2019: The 26th IEEE Conference on Virtual Reality and 3D User Interfaces

Student Volunteer
- CHI 2019
- UIST 2018
- ACM SIGGRAPH ASIA 2017
- ACM SIGGRAPH ASIA 2016
- ACM SIGGRAPH ASIA 2015 (Student Volunteer Team Leader)
- ACM SIGGRAPH 2015
- ACM SIGGRAPH ASIA 2014

ACTIVITIES & INVOLVEMENT

10/2018-present **Tohoku University Data Science Program**, Member

4/2019-present **Sendai Dynamic Speakers (Toastmaster Club)**, Member

12/2018-present **Sendai Lunch Speakers (Toastmaster Club)**, Member

8/2014-5/2015 **CCAD (Columbus College of Art & Design) Student Leader**, Member

8/2014-5/2015 **CCAD Industrial Design Student Collective**, Member

REFERENCES

- Yoshifumi Kitamura, Professor, Department of Information Science, Tohoku University, Sendai, Miyagi, Japan
kitamura@riec.tohoku.ac.jp

- Kazuki Takashima, Professor, Department of Information Science, Tohoku University, Sendai, Miyagi, Japan
takashima@riec.tohoku.ac.jp

- Tomoaki Adachi, Professor, Department of Education, Miyagi Gakuin Women's University, Sendai, Miyagi, Japan
  adachi@miyagi.email.ne.jp

- Ehud Sharlin e Department of Computer Science, University of Calgary, Calgary, Alberta, Canada
  ehud@cpsc.ucalgary.ca