Xiyue Wang

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RESEARCH INTERESTS

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

EDUCATION

10/2018-9/2021	Tohoku University Ph.D. in Information Science, Department of System Information Science Information Contents Laboratory, Adviser: Prof. Yoshifumi Kitamura	Sendai, Miyagi, JAPAN
10/2016-9/2018	Tohoku University Master of Information Science, Department of System Information Science Information Contents Laboratory, 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

03/2021-05/2021	Sendai Youth Leadership Program Mentor • Teaching communication skills to high school students from several countries in Asia • Organizing projects include how to make speeches and take meeting roles via the online platform	Online
10/2019-2/2020	Master/Doctor 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, PyTorch, 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 2021 (Student Volunteer Local Support Chair)
- 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

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

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