

Toby Jia-Jun Li

Curriculum Vitae

Department of Computer Science and Engineering
College of Engineering
University of Notre Dame
Notre Dame, IN 46556 USA

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Twitter: [@TobyJLi](https://twitter.com/TobyJLi)

Research Interests

Human-Computer Interaction (HCI), Human-AI Interaction, Multi-Modal Interaction, Human-Centered Machine Learning, End-User Development, Programming Tools, Human-Centered Data Science.

Professional Appointments

Assistant Professor University of Notre Dame, <i>Notre Dame, IN</i> Department of Computer Science and Engineering	2021–Present
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Education

Ph.D. in Human-Computer Interaction Carnegie Mellon University, <i>Pittsburgh, PA</i> Human Computer Interaction Institute, School of Computer Science <i>Advisor:</i> Brad A. Myers <i>Committee:</i> Tom M. Mitchell, Jeffery P. Bigham, John Zimmerman, and Philip J. Guo	2021
B.S. with Distinction in Computer Science University of Minnesota, <i>Minneapolis, MN</i> Department of Computer Science and Engineering <i>Advisor:</i> Brent J. Hecht	2015

Selected Honors and Awards

AnalytiXIN Faculty Fellowship	2022
Google Research Scholar Award	2022
CMU School of Computer Science Honorable Mention Dissertation Award	2021
CHI 2021 Best Paper Honorable Mention Award [C.14]	2021
UIST 2020 Best Paper Award [C.13]	2020
Yahoo! InMind Fellowship (<i>Full support for 4 years</i>)	2016–2019
IS-EUD 2017 Best Paper Award [C.6]	2017
CHI 2017 Best Paper Honorable Mention Award [C.5]	2017
VL/HCC 2017 Doctoral Consortium Grant (<i>\$1,200</i>)	2017
2016 Bosch Internet of Things Hackathon – 1st place (<i>\$1,000</i>)	2016
University of Minnesota Gold Global Excellence Scholarship (<i>\$33,680 over 4 years</i>)	2012–2015
UROP Undergraduate Research Opportunity Program Award (<i>\$1,400</i>)	2013–2014

ESRI Scholarship (\$2,000)	2014
University of Minnesota Cultural Corps Award (\$150)	2014
ACM/ICPC International Collegiate Programming Contest Word Final Qualifier	2013

Major Peer-Reviewed Conference and Journal Papers

(Underlines indicate students under my supervision)

- [C.18] **A Bottom-Up End-User Intelligent Assistant Approach to Empower Gig Workers against AI Inequality**
Toby Jia-Jun Li, Yuwen Lu, Jaylexia Clark, Meng Chen, Victor Cox, Meng Jiang, Yang Yang, Tamara Kay, Danielle Wood, and Jay Brockman
Proceedings of the 1st Symposium on Human-Computer Interaction for Work (CHI WORK 2022)
- [C.17] **It is AI's Turn to Ask Human a Question: Question and Answer Pair Generation for Children Storybooks in FairytaleQA Dataset**
 Bingsheng Yao, Dakuo Wang, Tongshuang Wu, Zheng Zhang, **Toby Jia-Jun Li**, Mo Yu, and Ying Xu
Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)
- [C.16] **Fantastic Questions and Where to Find Them: FairytaleQA—An Authentic Dataset for Narrative Comprehension**
 Ying Xu, Dakuo Wang, Mo Yu, Daniel Ritchie, Bingsheng Yao, Tongshuang Wu, Zheng Zhang, **Toby Jia-Jun Li**, Nora Bradford, Branda Sun, Tran Hoang, Yisi Sang, Yufang Hou, Xiaojuan Ma, Diyi Yang, Nanyun Peng, Zhou Yu, and Mark Warschauer
Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)
- [C.15] **StoryBuddy: A Human-AI Collaborative Agent for Parent-Child Interactive Storytelling with Flexible Parent Involvement**
Zheng Zhang, Ying Xu, Yanhao Wang, Bingsheng Yao, Daniel Ritchie, Tongshuang Wu, Mo Yu, Dakuo Wang, and **Toby Jia-Jun Li**
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2022)
- [C.14] **Screen2Vec: Semantic Embedding of GUI Screens and GUI Components**
 **Toby Jia-Jun Li**, Lindsay Popowski, Tom M. Mitchell, and Brad A. Myers
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2021)
Best Paper Honorable Mention Award
- [C.13] **Multi-Modal Repairs of Conversational Breakdowns in Task-Oriented Dialogs**
 **Toby Jia-Jun Li**, Jingya Chen, Haijun Xia, Tom M. Mitchell, and Brad A. Myers
Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2020)
Best Paper Award
- [C.12] **Geno: A Developer Tool for Authoring Multimodal Interaction on Existing Web Applications**
 Ritam Sarmah, Yunpeng Ding, Di Wang, Cheuk Yin Phipson Lee, **Toby Jia-Jun Li**, and Xiang 'Anthony' Chen
Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2020)
- [C.11] **Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations**
Toby Jia-Jun Li, Tom M. Mitchell, and Brad A. Myers
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020): System Demonstrations
- [C.10] **Privacy-Preserving Script Sharing in GUI-based Programming-by-Demonstration Systems**
Toby Jia-Jun Li, Jingya Chen, Brandon Canfield, and Brad A. Myers
Proceedings of the ACM on Human-Computer Interaction (CSCW 2020)

- [C.9] **PUMICE: A Multi-Modal Agent that Learns Concepts and Conditionals from Natural Language and Demonstrations**
Toby Jia-Jun Li, Marissa Radensky, Justin Jia, Kirielle Singarajah, Tom M. Mitchell, and Brad A. Myers
Proceedings of the ACM Symposium on User Interface Software and Technology (UIST 2019)
- [C.8] **A Multi-Modal Interface for Specifying Data Descriptions in Programming by Demonstration Using Verbal Instructions**
Toby Jia-Jun Li, Igor Labutov, Xiaohan Nancy Li, Xiaoyi Zhang, Wenze Shi, Wanling Ding, Tom M. Mitchell, and Brad A. Myers
Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2018)
- [C.7] **KITE: Building conversational bots from mobile apps**
Toby Jia-Jun Li and Oriana Riva
Proceedings of the the ACM Conference on Mobile Systems, Applications, and Services (MobiSys 2018)
- [C.6] **Programming IoT Devices by Demonstration Using Mobile Apps**
 Toby Jia-Jun Li, Yuanchun Li, Fanglin Chen, and Brad A. Myers
International Symposium on End User Development (IS-EUD 2017). LNCS, vol. 10303
Best Paper Award
- [C.5] **SUGILITE: Creating Multimodal Smartphone Automation by Demonstration**
 Toby Jia-Jun Li, Amos Azaria, and Brad A. Myers
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2017)
Best Paper Honorable Mention Award
- [C.4] **PrivacyStreams: Enabling Transparency in Personal Data Processing for Mobile Apps**
Yuanchun Li, Fanglin Chen, Toby Jia-jun Li, Yao Guo, Gang Huang, Matthew Fredrikson, Yuvraj Agarwal, and Jason I. Hong
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT / UbiComp 2017)
- [C.3] **Not at Home on the Range: Peer Production and the Urban/Rural Divide**
Isaac Johnson, Yilun Lin, Toby Jia-Jun Li, Andrew Hall, Aaron Halfaker, Johannes Schöning, and Brent Hecht
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2016)
- [C.2] **Leveraging Advances in Natural Language Processing to Better Understand Tobler's First Law of Geography**
Toby Jia-Jun Li, Shilad Sen, and Brent Hecht
Proceedings of the ACM Conference on Advances in Geographic Information Systems (SIGSPATIAL 2014)
- [C.1] **WikiBrain: Democratizing Computation on Wikipedia**
Shilad Sen, Toby Jia-Jun Li, WikiBrain Team, and Brent Hecht
Proceedings of the International Symposium on Open Collaboration (OpenSym / WikiSym 2014)

Lightly-Reviewed Extended Abstracts and Workshop Papers

- [W.12] **Computational Approaches for Understanding, Generating, and Adapting User Interfaces**
Yue Jiang*, Yuwen Lu*, Jeffrey Nichols, Wolfgang Stuerzlinger, Chun Yu, Christof Lutteroth, Yang Li, Ranjitha Kumar, and Toby Jia-Jun Li
Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)

- [W.11] **Bridging the Gap Between UX Practitioners' Work Practices and Machine-Learning-Enabled Design Support Tools**
Yuwen Lu, Chengzhi Zhang, Iris Zhang, and **Toby Jia-Jun Li**
Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)
- [W.10] **AI as an Active Writer: Interaction strategies with generated text in human-AI collaborative fiction writing**
 Daijin Yang, Yanpeng Zhou, Zhiyuan Zhang, **Toby Jia-Jun Li**, and Ray LC
IUI 2022 Workshop on Human-AI Co-Creation with Generative Models (HAI-GEN 2022)
- [W.9] **Building an Interactive Storytelling Conversational Agent through Parent-AI Collaboration**
Zheng Zhang, Ying Xu, Yanhao Wang, Bingsheng Yao, Daniel Ritchie, Tongshuang Wu, Mo Yu, Dakuo Wang, and **Toby Jia-Jun Li**
CSCW 2021 Workshop on Inclusive and Collaborative Child-Facing Voice Technologies (CUI@CSCW)
- [W.8] **Towards Effective Human-AI Collaboration in GUI-Based Interactive Task Learning Agents**
Toby Jia-Jun Li, Jingya Chen, Tom M. Mitchell, and Brad A. Myers
CHI 2020 Workshop on Artificial Intelligence for HCI: A Modern Approach (AI4HCI)
- [W.7] **Interactive Task and Concept Learning from Natural Language Instructions and GUI Demonstrations**
Toby Jia-Jun Li, Marissa Radensky, Justin Jia, Kirielle Singarajah, Tom M. Mitchell, and Brad A. Myers
AAAI 2020 Workshop on Intelligent Process Automation (IPA-20)
- [W.6] **A Multi-Modal Approach to Concept Learning in Task Oriented Conversational Agents**
Toby Jia-Jun Li, Marissa Radensky, Tom M. Mitchell, and Brad A. Myers
CHI 2019 Workshop on Conversational Agents: Acting on the Wave of Research and Development
- [W.5] **How End Users Express Conditionals in Programming by Demonstration for Mobile Apps**
Marissa Radensky, **Toby Jia-Jun Li**, and Brad A. Myers
IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2018) Poster Track
- [W.4] **Supporting Co-Adaptive Human-Agent Relationship through Programming by Demonstration using Existing GUIs**
Toby Jia-Jun Li, Igor Labutov, Xiaohan Nancy Li, Tom M. Mitchell, and Brad A. Myers
CHI 2018 Workshop on Rethinking Interaction
- [W.3] **End User Mobile Task Automation using Multimodal Programming by Demonstration**
Toby Jia-Jun Li
IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2017) Graduate Consortium
- [W.2] **Designing a Conversational Interface for a Multimodal Smartphone Programming by Demonstration Agent**
Toby Jia-Jun Li, Brad A. Myers, Amos Azaria, Igor Labutov, Alexander Rudnicky, and Tom M. Mitchell
CHI 2017 Workshop on Conversational UX Design
- [W.1] **Smartphone Text Entry in Cross-Application Tasks**
Toby Jia-Jun Li and Brad A. Myers
CHI 2016 Workshop on Inviscid Text Entry and Beyond

Book Sections

- [B.3] **Demonstration + Natural Language: Multimodal Interfaces for GUI-based Interactive Task Learning Agents**
Toby Jia-Jun Li, Tom M. Mitchell, and Brad A. Myers
 Chapter of *Artificial Intelligence for Human Computer Interaction: A Modern Approach*. Springer. 2021.

- [B.2] **Teaching Agents When They Fail: End User Development in Goal-Oriented Conversational Agents**
Toby Jia-Jun Li, Igor Labutov, Brad A. Myers, Amos Azaria, Alexander Rudnický, and Tom M. Mitchell
 Chapter of *Studies in Conversational UX Design*. Springer. 2018.
- [B.1] **Making End User Development More Natural**
 Brad A. Myers, Amy Ko, Chris Scaffidi, Stephen Oney, YoungSeok Yoon, Kerry Chang, Mary Beth Kery, and
Toby Jia-Jun Li
 Chapter of *New Perspectives in End-User Development*. Springer. 2017.

Patents

- [P.1] **Automatically generating conversational services from a computing application**
 Oriana Riva, Jason Kace, Doug Burger, and **Toby Jia-Jun Li**
 U.S. Patent 10,705,892. Granted July 7, 2020; Filed June 7, 2018.

Grants and Gifts

AnalytiXIN Idea Discovery Proposal: Human-AI Collaboration in Data Annotation

PI: Toby Jia-Jun Li

2022; \$13,734

NVIDIA Academic Hardware Grant: Generating Immersive VR Scenes with Spatial Audio from Monaural 2D Videos

PI: Toby Jia-Jun Li; Student: Zheng Ning

2022; \$4,650 in equipment

NSF: Collaborative Research: SHF: Medium: Towards More Human-like AI Models of Source Code

CCF-2211428

Lead PI: Collin McMillan (ND); Co-PI: Toby Jia-Jun Li and Yu Huang (Vanderbilt University)

2022-2026; \$1,295,880 (ND's share \$864,000; My credit \$432,000)

Google Research Scholar Award: Effective Human-AI Collaboration with Data-Driven Models in UX Design

PI: Toby Jia-Jun Li

2022-2023; \$60,000

University of Notre Dame Asia Research Collaboration Grant: Creativity and Cultural Factors in Human-AI Co-Creation in Fiction Writing

PI: Toby Jia-Jun Li; Collaborator: Ray LC (City University of Hong Kong)

2022-2023; \$9,835

Google Cloud Research Credit Grant: Procedure Generalization in Interactive Task Learning

PI: Toby Jia-Jun Li

2021-2022; \$5,000 in credits

Google Cloud Research Credit Grant: Screen2Vec: A New Method for Embedding GUI Screens in Vector Spaces

PI: Toby Jia-Jun Li

2020-2021; \$1,000 in credits

Google Cloud Research Credit Grant: SUGILITE: A Multi-Modal Agent that Learns Tasks from Natural Language and Demonstrations

PI: Toby Jia-Jun Li

2019-2020; \$2,000 in credits

Yahoo InMind Fellowship: Automating Repetitive and Cross-App Tasks

Recipient: Toby Jia-Jun Li

2016-2019; \$400,000

Relevant Research Experience**Engineering Implementation Consultant****Research Intern**

Microsoft Research, Redmond, WA

Mentor: Dr. Oriana Riva

Aug. 2017–Dec. 2017

May. 2017–Aug. 2017

Research Assistant

GroupLens Research, University of Minnesota

Jan. 2013–Aug. 2015

Teaching Experience**Instructor**, *CSE 60427: Human-Centered Computing Research*

Department of Computer Science and Engineering, University of Notre Dame

Fall 2021, Fall 2022

Teaching Assistant, *05-391 / 05-891: Designing Human-Centered Software*

Human-Computer Interaction Institute, Carnegie Mellon University

Spring 2019

Teaching Assistant, *05-410 / 05-610: User-Centered Research & Evaluation*

Human-Computer Interaction Institute, Carnegie Mellon University

Fall 2018

Teaching Staff, *CSCI 5715: From GPS and Google Maps to Spatial Computing*

Coursera MOOC & Dept. of Computer Science and Engineering, Univ. of Minnesota

Fall 2014

Teaching Assistant, *CSCI 2011: Discrete Structures of Computer Science*

Department of Computer Science and Engineering, University of Minnesota

Fall 2013, Spring 2014

Students Advised at Notre Dame**Doctoral Students****Yuwen Lu** (Ph.D. in Computer Science and Engineering)

2021–Present

Zheng Ning (Ph.D. in Computer Science and Engineering)

2021–Present

Simret Araya Gebreegziabher (Ph.D. in Computer Science and Engineering)

2021–Present

Zheng Zhang (Ph.D. in Computer Science and Engineering)

2021–Present

Chaoran Chen (Ph.D. in Computer Science and Engineering)

2022–Present

Doctoral Thesis Committee**Gonzalo Martinez** (Ph.D. in Computer Science and Engineering)

Graduated in 2022

Sakib Haque (Ph.D. in Computer Science and Engineering)

Graduated in 2022

Aakash Bansal (Ph.D. in Computer Science and Engineering)

Expected Graduation in 2023

Undergraduate Students**Ryan Pairitz** (B.S. in Computer Science)

2022–Present

Jerrick Ban (B.S. in Computer Science)

2022–Present

Ziang Tong (B.S. in Computer Science)

2022–Present

Victor Cox (B.S. in Computer Science)

2021–Present

Meng Chen (B.S. in Computer Science)

2021–Present

Students Mentored Prior to Notre Dame

- Tiffany Cai** (CMU, now at Google X) Spring 2017
- *Worked on a new mobile keyboard for recording text entries in demonstration.*
- Jeremy Wei** (CMU, now at Flatiron Health) Spring 2017
- *Worked on identifying crucial actions in demonstrated scripts.*
- Xiaohan Nancy Li** (CMU, now at Microsoft) Fall 2017
- *Worked on representing and querying snapshots of mobile GUIs. [C.8][W.4]*
- Wenze Shi** (CMU, now at Facebook) Spring 2018
- *Worked on extracting semantic entities from mobile GUIs. [C.8]*
- Wanling Ding** (CMU, now at Shopee) Spring 2018
- *Worked on generating user friendly representations for demonstrated scripts. [C.8]*
- Marissa Radensky** (Amherst College, REU at CMU, now Ph.D. student at UW) Summer 2018
- *Worked on supporting conditionals in programming by demonstration. [W.5][W.6][C.9]*
- Justin Jia** (CMU) Spring 2019
- *Worked on semantic parsing for concept instructions. [C.9]*
- Kirielle Singarajah** (CMU, now at Google) Spring 2019
- *Worked on semantic parsing for concept instructions. [C.9]*
- Brandon Canfield** (Yale University, REU at CMU) Summer 2019
- *Worked on enabling privacy-preserving sharing of end user developed scripts. [C.10]*
- William Timkey** (Cornell University, REU at CMU, now Ph.D. student at NYU) Summer 2019
- *Worked crowd-sourced data collection for semantic parsers.*
- Jingya Chen** (CMU, first position at MIT, now at Microsoft Research) Summer 2019–2020
- *Worked on multi-modal error handling for speech interfaces. [W.8][C.10][C.13]*
- Lindsay Popowski** (Harvey Mudd, REU at CMU, now Ph.D. student at Stanford) Summer 2020
- *Worked on the semantic embedding of GUI screens and components. [C.14]*
-  **CRA 2021 Outstanding Undergraduate Researcher Award**
- Vanessa Hu** (Harvard University, REU intern at CMU) Summer 2020
- *Worked on the fuzzy lexicon matching and time expression parsing in semantic parsers.*

Selected Talks, Seminars, and Invited Demos

- [T.10] **End User Empowerment through Human-AI Collaboration**
Invited Talk at HCI Group, Princeton University
Host: Andrés Monroy-Hernández
Virtual Visit, Jun. 17, 2022
- [T.9] **Human-AI Collaboration in Data Annotation and More**
Invited Talk at IBM Research Almaden
Host: Lucian Popa and Dakuo Wang
Virtual Visit, Apr. 22, 2022

- [T.8] **Screen2Vec: Semantic Embedding of GUI Screens and What They are Useful for**
Invited Talk at HCI Group, Stanford University
Host: Michael Bernstein
Virtual Visit, Feb. 22, 2021
- [T.7] **Interactive Systems for Configuring, Extending, and Developing AI Applications**
Invited Talk at Apple Research
Host: Jeff Nichols
Virtual Visit, Mar. 8, 2021
- Invited Talk at HCI Lab, Hasso Plattner Institut
Host: Patrick Baudisch
Virtual Visit, Mar. 4, 2021
- Invited Talk at Sigma Research Seminar Series
Host: Çağatay Demiralp
Virtual Visit, Feb. 24, 2021
- Invited Talk at Microsoft Research Montréal
Host: Adam Trischler
Virtual Visit, Jan. 11, 2021
- Invited Talk at Google People + AI Research (PAIR) Seminar
Host: Carrie Cai
Virtual Visit, Oct. 13, 2020
- Invited Talk at IBM Research Cambridge
Host: Casey Dugan
Virtual Visit, Aug. 12, 2020
- [T.6] **Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations**
Invited Talk at *the AAAI-20 Workshop on Intelligent Process Automation (IPA-20)*
New York, NY. Feb. 7, 2020
- [T.5] **Machine Learning from Human Instruction: Every Person a Programmer**
Invited Talk at J.P. Morgan (*with Forough Arabshahi*)
Host: Sumitra Ganesh and Denis Kochedykov
New York, NY. May 24, 2019
- [T.4] **Teaching Intelligent Agents New Tricks: Natural Language Instructions plus Programming-by-Demonstration for Teaching Tasks**
Invited Talk at *Human Computer Interaction Consortium (HCIC '18) (with Brad Myers)*
Watsonville, CA. Jun. 25, 2018
- [T.3] **SUGILITE: A Multi-Modal Agent that Learns Tasks from Natural Language and Demonstrations**
Invited Demo at *the ACL 2020 Workshop on Natural Language Interfaces*
Seattle, WA. July 10, 2020
- Invited Demo at *the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019)*
Pittsburgh, PA. Oct. 28, 2019
- Invited Lightning Talk at CMU HCII 25th Anniversary
Pittsburgh, PA. Oct. 25, 2019
- Invited Talk at Oath (formerly Yahoo!)
Sunnyvale, CA. May 30, 2018

[T.2] Atlasify – The Geography of Everything

Invited Demo at *the 3M Science and Engineering Symposium*
St Paul, MN. Jun. 25, 2015

Invited Demo at *the Social Media and Business Analytics Collaborative (SOBACO) Research Symposium*
Minneapolis, MN. May 14, 2015

[T.1] WikiBrain: Making Computer Programs Smarter with Knowledge from Wikipedia

Invited Demo at *the Social Media and Business Analytics Collaborative (SOBACO) Research Symposium*
Minneapolis, MN. May 6, 2014.

Invited Guest Lectures**Human-AI Collaborative Systems**

Spring 2022

EECS 598: Human-AI Interaction and Systems

University of Michigan, Department of Computer Science and Engineering

Human-AI Collaborative Systems

Fall 2021

CS 228 Human-Computer Interaction

University of Vermont, Department of Computer Science

Toolkits for Creating Conversational Interfaces

Fall 2020

05-830: Advanced User Interface Software

Carnegie Mellon University, Human-Computer Interaction Institute

Professional Service**Academic Service****Organizing Committee**

ACM UIST 2021 Web and Design Chair

Workshop Organizer

CHI 2022 Workshop on Computational Approaches for User Interfaces

Associate Chair (AC) of Program Committee

ACM CHI 2023

ACM CHI 2022

ACM UIST 2021

ACM CHI 2020 Late Breaking Work Track

ACM CHI 2019 Late Breaking Work Track

Member of Program Committee

EMNLP 2021

KDD 2021 Workshop on Data Science with Human in the Loop (DaSH 2021)

ACL 2021 Workshop on NLP for Programming (NLP4Prog)

AAAI 2020 Workshop on Intelligent Process Automation (IPA 20)

Session Chair

CHI WORK 2022 Session on *Remote Work*


ACM CHI 2022 Session on *Interacting with Data* and Journal Session on *Context and the Interface*

ACM UIST 2021 Session on *Alternative Programming*

ACM CHI 2019 Session on *Conversational Interactions*

Conference Reviewer

ACM CHI (2017-2023), **ACM UIST** (2017-2022), **ACM CSCW** (2018-2022), **ACL** (2021), **ACM DIS** (2018-2021), **ACM MobileHCI** (2018-2020), **ACM TEI** (2018), **ACM SIGCSE** (2018), **ACM CHI PLAY** (2019)

 Received “special recognitions” for outstanding reviews for ACM UIST 2017, ACM CHI 2018, ACM DIS 2020, ACM CHI 2021 (twice), and ACM CSCW 2022.

Journal Reviewer

ACM TOCHI (2021-2022), **ACM IMWUT** (2017-2020), **IEEE TMC** (2018, 2022), **IEEE TSC** (2020), **IEEE Pervasive** (2018-2019), **IJGIS** (2017), **IEEE Access** (2019-2020)

Grant Proposal Reviewer/Panelist

Panelist, National Science Foundation (NSF) CISE (2022)

Reviewer, Indiana Clinical and Translational Sciences Institute (CTSI) (2021)

Departmental and Community Service

Committee Member, Lucy Family Institute Graduate Scholar Selection Committee (2022)

Faculty Leader, Notre Dame’s Participation in TAPIA Conference of Diversity in Computing (2021)

Committee Member, Notre Dame CSE Ph.D. Admissions Committee (2021-2022)

Member, CMU HCII Anti-Racism Work Group (2020-2021)

Coordinator, CMU HCII Open House Faculty Research Talks (2020-2021)

Committee Member, CMU HCII Faculty Lunch Organization Committee (2019-2020)

Committee Member, CMU HCII Ph.D. Student Lounge Committee (2019-2020)

Committee Member, CMU HCII Ph.D. Admissions Committee (2018-2019)

Student Volunteer, ACM IUI 2019, ACM SIGSPATIAL 2014

Languages

English – Native or bilingual proficiency, **Chinese (Mandarin)** – Native or bilingual proficiency

Technical Skills

Programming Languages: C/C++, Java, Python, Android, JavaScript, SQL, HTML and others

UX Skills: Qualitative Research, Quantitative Research, Experiment Design, Data Analysis, UX Design

Keywords: Machine Learning, Deep Learning, Natural Language Processing, Dialog Systems, Conversational UX