

Yixuan (Janice) Zhang

177 Huntington Ave, Boston, MA 02115

☎ (+1) 716-440-1358 | ✉ zhang.yixua@husky.neu.edu

Education

Northeastern University

Ph.D. in Personal Health Informatics

Boston

Sep. 2017 - Present

Northeastern University

M.S. in Health Informatics

Boston

GPA 3.97/ 4.0

City University of Hong Kong

M.F.A. in Creative Media

Hong Kong

with Academic Distinctions

Publications

Journal Publications

1. Elizabeth Stowell, Yixuan Zhang, Carmen Castaneda-Sceppa, Margie Lachman, and Andrea G. Parker. 2019. Caring for Alzheimer's Disease Caregivers: A Qualitative Study Investigating Opportunities for Exergame Innovation. Proc. ACM Hum.-Comput. Interact. 3, CSCW, Article 130 (November 2019), 27 pages. <https://doi.org/10.1145/3359232>
2. Yixuan Zhang, Kartik Chanana, and Cody Dunne. 2019. IDMMVis: Temporal Event Sequence Visualization for Type 1 Diabetes Treatment Decision Support. IEEE Transactions on Visualization and Computer Graphics 25, 1 (Jan 2019), 512–522. DOI: <http://dx.doi.org/10.1109/TVCG.2018.2865076>

Peer-reviewed Conference Publications

1. **[2020 CHI Submission]** Yixuan Zhang, Charlotte Gray, Mengyue Sun, Tad Hirsch, and Andrea G. Parker. “Self-Tracking in Romantic Relationships: A Qualitative Study of Interpersonal Dynamics.”(Under Review)
2. **[2020 CHI Submission]** Yixuan Zhang, Rana Azghandi, Nurul Suhaimi, Mary Joseph, Miso Kim, Jacqueline Griffin, and Andrea G. Parker. “Understanding the Use of Crisis Informatics Technology among Older Adults.”(Under Review)
3. **[2020 CHI Submission]** Bartolomeo, Sara Di, Yixuan Zhang, Fangfang Sheng, and Cody Dunne. “Sequence Braiding: Visual Overviews of Temporal Event Sequences and Attributes.” (Under Review)
4. Yixuan Zhang, Sara Di Bartolomeo, Fangfang Sheng, Holly Jimison, Cody Dunne. 2019. Evaluating Alignment Approaches in Superimposed Time-Series and Temporal Event-Sequence Visualizations. arXiv:1908.07316. Retrieved from <https://arxiv.org/abs/1908.07316> (To appear VIS 2019)
5. Yixuan Zhang, Rachel Pozzar, Xing Zhou, Miso Kim, Paul W Fombelle, and Valeria A Ramdin. 2018. Autonomy in Residential Care: Using TEAMWORK and the Deep Dive to Facilitate Interdisciplinary Collaboration. In International Conference on Applied Human Factors and Ergonomics. Springer, 279–288.
6. Valeria A Ramdin, Miso Kim, Rachel Pozzar, Paul W Fombelle, Yixuan Zhang, Xing Zhou, and Julia Janigan. 2018. Resident autonomy in assisted living facilities: A conceptual framework for transformative service research. In ServDes2018. Service Design Proof of Concept, Proceedings of the ServDes. 2018 Conference, 18-20 June, Milano, Italy. Linköping University Electronic Press, 1088–1099
7. Rachel Pozzar, Miso Kim, Valeria A Ramdin, Xing Zhou, Yixuan Zhang, and Paul W Fombelle. 2018. Residential Care as a Negative Service: Informing a Service Prototype to Promote Elder Autonomy. Frontiers in Service.

Talks

1. **[Paper Talk] VIS 2019**, Vancouver, BC, Canada. “Evaluating Alignment Approaches in Superimposed Time-series and Temporal Event-sequence Visualizations”.

2. **[Invited Talk & Demo] VIS Workshop on Visual Analytics in Healthcare (VAHC) 2019**, Vancouver, BC, Canada. “Evaluating Alignment Approaches in Superimposed Time-series and Temporal Event-sequence Visualizations”.
3. **[Invited Talk] New England Chapter of HIMSS Student Event 2019**, Boston, MA, USA. “Visualization of Data to Support Clinician and Patient Decision Making”.
4. **[Paper Talk] VIS 2018**, Berlin, Germany. “IDMVis: Temporal Event Sequence Visualization for Type 1 Diabetes Treatment Decision Support”.
5. **[Paper Talk] AHFE 2018**, Orlando, FL, USA. “Autonomy in Residential Care: Using TEAM-WORK and the Deep Dive to Facilitate Interdisciplinary Collaboration”.

Posters & Exhibitions

1. **[Poster]** CRA-W 2019 (Computing Research Association–Grad Cohort for Women program), Chicago, IL, USA. “Visualization for Type 1 Diabetes Treatment Decision Support”.
2. **[Poster]** Eastern Nursing Research Society (ENRS) 31st Annual Scientific Sessions, Providence, RI, USA. “Conceptualizations of Autonomy in the Residential Care Setting: Results from an Interdisciplinary Service Design Project”.
3. **[Poster]** RISE 2017, Northeastern University, Boston, MA, USA. “Video-Oriented Approach to Improve Healthy Eating Behaviors”.
4. **[Exhibition]** Run Run Shaw Creative Media Center 2012, City University of Hong Kong, Hong Kong. “Media Art & The Environment - The Desert Metropolis”

Working Experience

Harvard University

Cambridge, MA

Web Designer & Developer (Co-op)

Jan. 2015 - Jun.2015

- Developed websites (IdGlobal) for clients using Drupal platform with PHP, HTML/CSS/JavaScript
- Maintained Graduate School of Education official website and developed new features
- Participated in stakeholder analysis and user experience discussions on a new website ProjectZero

Illumina

Hayward, CA

User Experience & Web Designer (Intern)

Jun. 2014 - Aug.2014

- Conducted interviews to make requirement analysis and redesigned Illumina intranet information architecture
- Redesigned and developed intranet system with HTML/CSS/JS and conducted usability testing
- Documented intranet user interface guidelines, standards and tutorial documentation for future maintenance

City University of Hong Kong

Hong Kong

Interaction Designer & Web Application Developer

Jan. 2013 - Jan.2014

- Initiated an interactive tool to motivate students to participate more actively in class discussion
- Designed site map, concept map, wireframes and mock-ups in Axure RP and Adobe Photoshop
- Created and optimized database structure in SQL and developed web application in PHP and HTML/CSS/JS
- Improved overall students' performance from ten comments per lecture to hundreds of comments per lecture by the end of the third time of web application user testing

Service

Program Committee

AHFE Interdisciplinary Discourse in Service Design Co-Chair (2018)

Peer Reviewer

ACM CHI Late Breaking Work (2019), ACM CHI Case Studies (2020)

Student Mentees

Fangfang Sheng	MS in Bioinformatics	2019
Fengyang Wang	Undergraduate (exchanging from Tsinghua University) in Industrial Design	2019
Utkarshna Sinha	Master of Science in Computer Science ALIGN	2019
Charlotte Gray	MPH (now at OMNI Institute)	2019
Mengyue Sun	MS in Health Informatics	2019
Anita Onuoha	Undergraduate in Health Sciences	2019
Kartik Chanana	MS in Computer Science (now Software Engineer at Akamai Technologies)	2017-2018

Media Coverage

1. **“PHD STUDENT YIXUAN ZHANG USES DATA AND VISUAL ANALYTICS TO IMPROVE TYPE 1 DIABETES CARE”**, Northeastern University Khoury College of Computer and Information Sciences Press Release (January 25, 2019).

Skills

Design Adobe Creative Suite, Sketch, InVision || Field Study, Task Analysis, Persona, Wireframing, Card Sorting, Usability Testing

Programming HTML, CSS, Javascript, D3.js, R