

Houjiang Liu

liuhoujiang@hotmail.com | 781.827.9962 | jialingjia.github.io/houjiang-website/

Education

Ph.D. Student	Information Studies, University of Texas at Austin, 2021 to present
M.F.A.	Experience Design, Northeastern University, 2020
B.S.	Applied Physics, Jilin University, 2015

Publications

Thesis

1. **Liu, Houjiang**. 2020. "Enriching Gifts, Experience Design to Understand Human Relationships", Northeastern University, Boston, MA, 2020

Journals

1. Das, Anubrata, **Houjiang Liu**, Venelin Kovatchev, and Matthew Lease. 2023. "The State of Human-Centered NLP Technology for Fact-Checking." *Information Processing & Management* 60 (2): 103219.

Conference Proceedings

1. Li, Jiabao, **Houjiang Liu**, Jilie Zeng, Di Wu, Ying Ding, and Alec McGail. 2022. "Shifting Winds: Gendered Structures of Academic Mentorship." In 2022 IEEE VIS Arts Program (VISAP), 14–29.
2. **Liu, Houjiang**, Miso Kim, Mingzhu Li, and Shruthi Lakshmi Narayan. 2022. "Technology, Autonomy, and Participation: Designing Community Games and Services to Enhance Older Adults' Technology Literacy." In *IASDR 2021: [] With Design: Reinventing Design Modes*, 1575–91. Springer Nature Singapore.
3. **Liu, Houjiang**, Ray Lc, Miso Kim, Concettina Cormio, and Meixin Yu. 2022. "Designing for Distance Nursing: Reconnecting Nursing Students with Senior Home Residents During COVID-19." In *IASDR 2021: [] With Design: Reinventing Design Modes*, 2571–82. Springer Nature Singapore.
4. **Liu, Houjiang**, Miso Kim, Canqun He, and Tia Thomson. 2021. "Autonomy as a Design Principle: Service Design for the Technology Literacy of Older Adults." In *Design Culture(s). Cumulus Conference Proceedings*, 1190–1207.

Books

1. Deng, Zhifan, Yao, Guosheng, primary editors, He, Yaming., **Liu, Houjiang**., co-editors. 2014. *中华联语语典*, ChongWen Publishing.

Posters

1. "An Exploration of Service Design Metrics", Research, Innovation, Scholarship, Entrepreneurship (RISE), Virtual EXPO, Northeastern University, 2021. (With Chehade, Estefania Ciliotta)
2. "Participatory Design for Senior Healthcare: Service Design to Improve Seniors' Health Literacy and Autonomy", Research, Innovation, Scholarship, Entrepreneurship (RISE), Northeastern University, 2020.
3. "Enriching Family Gifts: Reciprocity in Family Relationships" (Abstract), North American PhD by Design Symposium, New York University, 2020.
4. "How Food is Served in Early Care Center", Northeastern University Visualization Consortium (NUVis), 2019 Demofest. (With Xu, Yingying and Xu, Anni)

Design

AI Technology

1 Model selection

Choose claims

☒ select one from claim candidates

☐ input own claims

Please select which model you want to use

☐ Model A

☐ Model B

☒ Model C

2 Claim selection

Model description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. The overall accuracy of this model trained on our previous datasets is 0.889

A claim ready to check:
Tony Evers, "Wisconsin pays 50% more than Minnesota for the same health care."

3 Feature-based keywords

Feature-based relevance Claim matching Adversarial triggers

3 Example-based explanations

Search existing fact-checked claims:

Tony Evers, "Wisconsin pays 50% more than Minnesota for the same health care."

claims	truth	similarity
0 Scott Walker, "Wisconsin is a Top 10 state for health care coverage."	True	0.72
1 Scott Walker, "Since I took office, Wisconsin now has the 2nd highest health care quality ranking in the country."	True	0.67
2 Tony Evers, Wisconsin is "49th out of 50 states in infrastructure."	False	0.67

An Explainable Claim Debunking AI Tool (ongoing), 2022

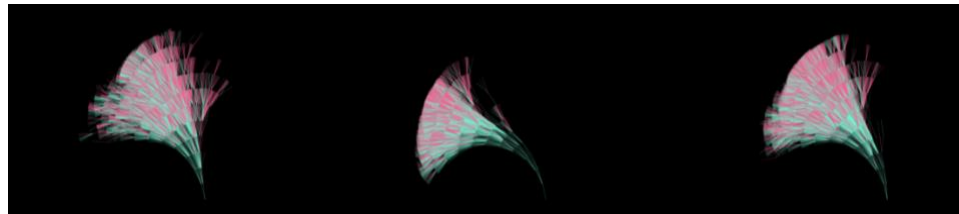


AutoDL, 2019, now updated to [CodewithGPU](#) (Chinese), [GPUHub](#) (International)

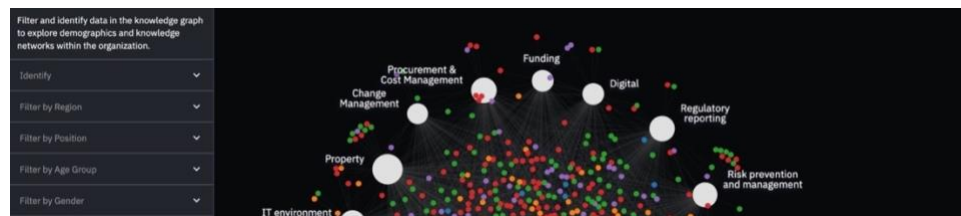


SeeTaaS (no longer functioning), 2018

Information Visualization



[Shifting Winds: Gendered Structures of Academic Mentorship](#), 2022



Data-viz for E-learning ([Application](#), [Proof-of-concept prototype](#)), 2021.
Information is Beautiful Awards, Longlist.

DATA PLATFORM



From a Systematic Perspective

HOW FOOD IS SERVED IN EARLY CARE CENTER

Menu

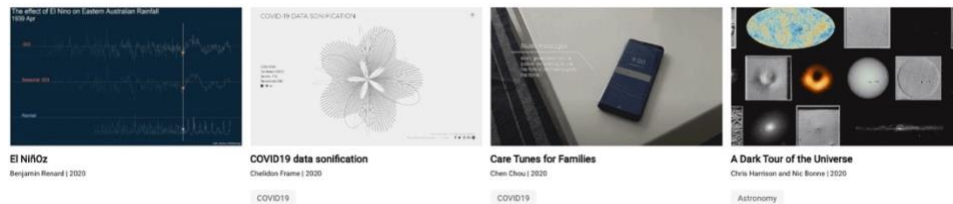
What is the menu for the day?

What is the menu for the week?

What is the menu for the month?

What is the menu for the year?

Experience Design




A Gift to Children

Parent and Child

On your children's 18th birthday:
 you want to give him or her a gift.
 What gifts would you prepare?

go to
 a Broadway
 show

stovetop
 safe tea
 kettle



Does your design provide choices and options to people?

100%

Dignity Toolkits for Design, 2019



Selective work in JDC UX, From 2015 to 2017

Employment

Research Assistant	Artificial Intelligence and Human-Centered Computing Lab, University of Texas at Austin, 2021 to present
Design Researcher	Center for Design, Northeastern University, 2020 to 2021
PT Lecturer	College of Arts, Media and Design, Northeastern University, 2019 to 2021
Research Assistant	College of Arts, Media and Design, Northeastern University, 2019 to 2020
UX Designer	Seetatech (Beijing), 2017 to 2018 JD Design Center (Beijing), JD.com, 2015 to 2017
Intern	JD Design Center (Beijing), JD.com, 2015 Lenovo (Harbin), 2013 Midea Group (Guangdong), 2012

Teaching Experience

Teaching Fellow	College of Arts, Media and Design, Northeastern University ARTG2400 Interaction Design, Spring 2021 ARTG2401 Interaction Design Tools, Fall 2019, Spring 2020
Teaching Assistant	College of Arts, Media and Design, Northeastern University ARTG6330 Info Design Mapping Strategies, Fall 2020 ARTG6900 Design for Dignity, Fall 2019

Awards

Grant for Research, Scholarship, and Creative Activity (Dean's award), Northeastern University, 2020
 First Design Award, Health x Design Challenge, Prize 2: Reimagine a System or Space, Mad*Pow, 2019
 Graduate Student Scholarship, Northeastern University, 2018
 Individual Undergrad Grant, Jilin University, 2015
 Innovative Design Award, Design Challenge, Tencent, 2014
 Second-class Undergrad Grant, Jilin University, 2012, 2013
 Second-class Award of Math Modeling, Jilin University, 2012

Skills

Design	Adobe Creative Suite (Illustrator, InDesign, Photoshop, and XD), Sketch, InVision, Axure, Figma
Data Analysis	R, Python, SPSS, MATLAB, ArcGIS
Data Visualization	JavaScript (D3, jQuery), HTML and CSS, C, Processing