

# Ning Zou

Updated February 2, 2021

PhD student, UX researcher

University of Pittsburgh, School of Computing and Information

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I am interested in utilizing mixed-method approach to understand the human factors for emerging intelligent and social information technologies; and to advance people's capabilities of accessing and understanding to their personal health data/information.

**Keywords:** *Human data/information interaction, Health informatics and Personal informatics.*

## SKILLS

**Research Methods:** Contextual design, Ethnography, Field study, Interview, Survey, Usability testing

**Tools:** Numpy, Pandas, Scipy, NLTK

**Programming:** Python, HTML/CSS, R, SQL

**Software:** MySQL, SPSS, Tableau, ATLAS.ti, NVivo, Adobe Creative Suite

## EDUCATION

**University of Pittsburgh**

Pittsburgh, PA

Ph.D. in Library and Information Science

08/2017 – Present

*Advisor: Dr. Daqing He*

**Syracuse University**

Syracuse, NY

M.S. in Library and Information Science

08/2014 – 05/2016

Certificate Advanced Study in Data Science

**Heilongjiang University**

Harbin, China

B.S. in Information Management

09/2007 – 07/2011

## RESEARCH EXPERIENCE

**Exploring Alzheimer's disease and related Dementia (ADRD) caregivers' information behavior in social media** <sup>[1]</sup>

*Advisors: Dr. Daqing He (PITT), Dr. Bo Xie (UT-Austin)* 01/2020 – Present

Research on examine ADRD caregivers' online information exchange on Reddit. The results provide insights to design an interactive system for engaging clinicians and automatic algorithms; and to better support clinician's interventions for ADRD patients.

- ◇ *Data Processing:* clean, parse and classify the online posts through Reddit public API.
- ◇ *Content Analysis:* developed coding scheme and utilized qualitative content analysis to identify the types of ADRD-related information exchange in social media;
- ◇ *Data Analysis:* conducting network analysis to discover caregivers' interaction patterns.

**Investigating people's behavior in Internet of things for health (H-IoT) tracked personal health data** <sup>[2]</sup>

*Advisors: Dr. Daqing He (PITT)* 05/2019 – Present

Research on understanding people's lifestyle self-management needs that related to H-IoT generated personal health data.

- ◇ *Survey:* designed and conducted a web survey to gather data directly from prediabetic H-IoT users about the kinds of data they need to track to facilitate self-managing their health;
- ◇ *Interview:* utilizing a mixed-method approach that combines both interview studies with co-design studies to uncover people's preferences and constraints of interacting with the data generated by H-IoT.

## Analyzing knowledge nodes and relationships for building a knowledge network of disease<sup>[5]</sup>

Advisors: Dr. Jian Qin (Syracuse University)

01/2016 – 09/2016

Research assistant for the *GenBank Metadata* project. This project intends to investigate the knowledge organization systems' capabilities in responding to the rapidly changing biomedical and disease terms.

- ◊ *Content Analysis*: uncover and identify the types of knowledge nodes and relationships between these nodes from precision medicine literature.

## TEACHING EXPERIENCE

### Graduate-level course assistant (University of Pittsburgh)

LIS2030: Data and Information in Systems Spring 21, 20

LIS2021: Identifying Information Needs in Knowledge

Organizations Fall 20, Fall 19

LIS2771: Academic Libraries Fall 20

LIS2023: Integrating Solutions for Knowledge Organizations Summer 20

INFSCI2140: Information Storage and Retrieval Fall18, Spring 19

INFSCI2440: Artificial Intelligence Fall18, Spring 19

LIS2850: Information Professional's Role in Teaching Summer18

and Learning Summer 18

LIS2975: Research Data Management Fall 17, Spring 18

### Graduate-level course design (University of Pittsburgh)

LIS2030: Data and Information in Systems Summer 19

## SELECTED PUBLICATIONS

[1] Wang, Z., **Zou, N.**, Xie, B., He, D., Luo, Z., Hilsabeck R. C., & Aguirre, A. (forthcoming). Characterizing dementia caregivers' information exchange on social media: exploring an expert-machine co-development. (iConference 2021)

[2] **Zou, N.**, He, D., & Liang, S. (2020, October). "Your Personal Health Data Can Tell": Exploring Prediabetic Adult's Lifestyle Self-Management with H-IoT Technology. (ASIS&T 2020)

[3] He, D., Wang, Z., Thaker, K., & **Zou, N.** (2020, July). Translation and Expansion: Enabling Laypeople Access to the COVID-19 Academic Collection. *Data and Information Management*, 4(3), 117 – 190.

[4] **Zou, N.**, He, D., & Liang, S. (2020, March). Issues and challenges of user and data interaction in health related IoT: A systematic review. *Library Hi Tech*, Vol. 38 N0.4, pp. 769 – 782

[5] Qin, J., **Zou, N.** (2017, March). Structures and Relations of Knowledge Nodes: Exploring a Knowledge Network of Disease from Precision Medicine Research Publications. (iConference 2017)

## ACADEMIC SERVICES

Reviewer of Aslib Journal of Information Management (SSCI)

Reviewer of Journal of Librarianship & Information Science (SSCI)

Reviewer of ASIS&T Asia-Pacific Regional Conference (2020)

PhD student representative for Pitt SCI faculty search committee (2018 – 2019)

Student volunteer for IDCC (2018)

## HONORS AND SCHOLARSHIP

Bertha G. Louik Scholarship (University of Pittsburgh) 2018

Blanche E. Woolls Scholarship (University of Pittsburgh) 2018

Clair Pyle Fund Scholarship (University of Pittsburgh) 2018