

Madelyn L. Zander

PhD Student in the Department of Information Science
University of Colorado, Boulder

madelyn.zander@colorado.edu

Twitter: @MadelynZander

Research Interests

Science and Technology Studies; Data privacy, law, and policy; Information Technology infrastructure; Telecommunications policy; Cultural Anthropology; Ethnography of Iceland and the Arctic; Privacy & regulatory frameworks; Computational Social Science

Education

University of Colorado, Boulder, Boulder, CO —

B.A. in Anthropology

August, 2014 – May, 2018

With distinction

University of Colorado, Boulder, Boulder, CO—

B.A. in Sociology

August, 2014– May, 2018

With distinction

AWARDS & FUNDING

Lead Graduate Fellowship Recipient : The Center for Teaching and Learning
(2020)

Certificate in Icelandic Language and Culture: Árni Magnússon Institute for Icelandic Studies
(Summer 2020)

FLAS (Foreign Language and Area Studies Program Fellowship: *Runner-up*
(2020)

Nomination: Application to Sheryl R. Young Memorial Fellowship

SKILLS

Data Visualization: matplotlib

Databases: The Razor's Edge

Data & Statistical Analysis:

Pandas, Scikit-learn

Programming Languages:

Introductory Python

LANGUAGES

French (Beginning)

Icelandic (Intermediate)

(Spring 2020)

Presidents Honor Roll: University of Colorado, Boulder
(2017, 2018)

Deans List: University of Colorado, Boulder
(2017, 2018)

APPOINTMENTS

Lead Graduate Teaching Fellow— AY 2021

Research Assistant, Dr. Alison Cool—*Summer, 2021*

Research Assistant, Dr. Lecia Barker— *Summer, 2019*

TEACHING EXPERIENCE

Lead Graduate Fellow for the Department of Information
Science (AY 2021-2022)

Teaching Assistant, INFO 1101: Chris Carruth –
Computation in Society (Fall 2021)

INFO 1101: Graduate Part-time Instructor (GPTI)
Computation in Society (Summer 2021)

Teaching Assistant, INFO 1101: Chris Carruth –
Computation in Society (Spring 2021)

Teaching Assistant, CMCI Pathways to Excellence:
Dr. Jared Browsh, *Podcast Production (Summer 2020)*

Teaching Assistant, INFO 1101: Dr. Roshanna Sylvester —
Computation in Society (Spring and Fall 2020)

Teaching Assistant, INFO 1111: Dr. Jed Brubaker —
Understanding the Word Through Data (Fall, 2019)

EXPERIENCE

2017-2018 Montana Independent Living Project
Personal Care Assistant

2017-2018 Bridger Ski Foundation
Nordic Ski Coach—Development Prep Team

2018–2019 The Geological Society of America

Database Coordinator

PROJECTS

Graduate:

Ethnographic Study of the Data Center Industry – *Current*

I am using an ethnographic approach to examine the emerging developments and impacts of the data center industry broadly, and how the industry is being shaped by social, political, economic, and environmental factors.

Discourse analysis of the Data Center Industry – *in an Icelandic Context*

Independent research study and paper using a discourse analytic approach to examine the construction of institutional talk and identity, environmental communication, and use of persuasive and idiomatic language among a variety of industry stakeholders.

Independent Guided Study on Iceland

Independent research paper surveying the social scientific scholarship of the Nordic region from the perspective of contemporary debates about technology and politics in Iceland.

Policy Analysis– Principles of Internet Policy

Critical analysis of the 2020 privacy framework developed by the National Institute of Standards and Technology.

Data Mining

Latent Dirichlet Topic Modeling – using the Twitter API, Tweets were collected using keyphrase filtering to conduct a thematic analysis of topics Tweeted about by data center industry stakeholders.

Undergraduate:

Ethnographic Analysis of Public Debate— *STS Seminar*

Thesis entitled “Massified Research and Associated Ethical Protocols”; Ethnographic analysis and exploration of the complex technological and social aspects of big data, and exploration of early privacy frameworks.

Ethnography of Techno-scientific Culture— *Digital Anthropology*

Ethnographic study conducted at Google in Boulder, CO; focus on participant observation to understand broadly, everyday practices and office culture at Google’s Boulder location.

Community Engagement— *Violence Against Women and Girls*

Ethnographic analysis of human sex trafficking in salon and parlor settings to understand social and cultural factors contributing to sexual violence against women and girls, especially within underrepresented and minority populations.

Ethnography of Digital Culture— *Anthropology Perspectives*

Ethnographic analysis of LinkedIn platform using open-source analytic software (Social Network Visualizer- SocNetV), to examine the effectiveness of LinkedIn as a job board. Populations surveyed included recent college graduates and recruiters.

COURSEWORK

Environmental and Energy Economics

Human Centered Computing - Survey and Synthesis: Foundations and Trajectories

Environmental and Energy Economics

Politics of Data and Numbers

Theories and Concepts in Information Science

Principles of Internet Policy

Computational Reasoning

Social Media Data Mining

Discourse Analysis

Interdisciplinary Ways of Knowing—Theory and Methods in Information Science

SERVICE

Department of Information Science, University of Colorado Boulder — Orientation coordination for incoming students. Talk given: “*What to Expect as a First-Time TA*”

Tech Help Coach: Boulder Public Library— Offer assistance to elderly individuals in developing computer literacy skills and assisting individuals with basic technological difficulties.

Department of Information Science University of Colorado, Boulder 2020 Open House: Student Volunteer

Women in Computing: University of Colorado at Boulder: Student Mentor

EagleMount: Volunteer Ski Instructor for differently abled individuals

Volunteer for Girls on the Run Rockies- Physical activity based, positive youth development program for girls in 3rd-8th grade. To assist girls in developing life skills and confidence through self efficacy and accomplishment in sport.

Project C.U.R.E.: Collection of medical supplies and equipment for donation to developing countries.

TALKS

University of Colorado Boulder: Fall Intensive: *“What to Expect as a First-Time TA”*

Department of Information Science, University of Colorado Boulder: *“What to Expect as First-Time TA”*

REFERENCES

Dr. Clara Altman – Federal Judicial Center

Washington, D.C.

Deputy Director

Dr. Kenneth Anderson—University of Colorado, Boulder

Boulder, CO

Chair and Professor of Computer Science

Department of Computer Science

Dr. Lecia Barker— University of Colorado, Boulder

Boulder, CO

Associate Professor of Information Science

Department of Information Science

Dr. Alison Cool—University of Colorado, Boulder

Boulder, CO

Assistant Professor of Anthropology and Information Science

Department of Anthropology

Dr. Leysia Palen—University of Colorado, Boulder

Boulder, CO

Professor of Information Science, Founding Faculty, Associate Chair for Graduate Studies

Department of Information Science

Dr. David Reed—University of Colorado, Boulder

Boulder, CO

Scholar in Residence of Technology, Cybersecurity and Policy

Department of Computer Science

Dr. Timothy Webmoor—University of Colorado, Boulder

Boulder, CO

Professor of Anthropology and STS; Human Centered (UX) Design Researcher and Consultant

Department of Anthropology