

ANDREA FIGUEROA

Human Centered Design and Engineering PhD student
MSc. in Computer Science Engineering

CONTACT

✉ afigure@uw.edu
🏠 Seattle, WA
🌐 andreafigure.github.io

EDUCATION

PhD. in Human-Centered Design and Engineering

University of Washington (UW)
2019 – present | Seattle, WA

MSc. in Computer Science Engineering

Universidad Técnica Federico Santa María (UTFSM) | 2016 – 2018 | Valparaíso, Chile

BSc. in Computer Science Engineering

Universidad Técnica Federico Santa María (UTFSM) | 2010 – 2016 | Valparaíso, Chile

SKILLS

CODING

C/C++ • Python • Ruby • Javascript • PHP • R

WEB DEVELOPMENT

Ruby on Rails • JS/Jquery • HTML/CSS

DATA VISUALIZATION

Tableau • D3 • Plotly • Altair • Matplotlib

DATA MANIPULATION

Tableau Prep • Pandas • NumPy • NLTK

BACK-END

GNU/Linux • Nginx • MariaDB • PostgreSQL
• Git • Scripting/Bash

DESIGN

LaTeX • Adobe Photoshop • Gimp

LANGUAGES

English – Fluent – TOEFL: 109

Spanish – Native

ABOUT ME

I'm currently a Research Assistant and PhD Student in Human Centered Design & Engineering (HCDE) advised by Dr. Cecilia Aragon at the University of Washington in Seattle. My research interest is focused on Human Centered Data Science and Data Visualization, using a mix of quantitative and qualitative research methods.

WORK EXPERIENCE

RESEARCH ASSISTANT

University of Washington | Sep 2019 - Present

Member of the Human-Centered Data Science Lab at UW. Building tools to help researchers with qualitative and automated analysis of large datasets, supporting discussions to improve inter-rater agreement by creating powerful data visualizations, inter-rater reliability metrics, and algorithms to uncover important information in the process.

INSTRUCTOR OF RECORD

University of Washington | Jan – June 2021

Instructor of the Information Visualization MSc. course for the HCDE Department. Taught the key design principles and techniques used in visualizing, exploring, and analyzing very large data sets, together with the perceptual principles that support them.

FREELANCE SOFTWARE DEVELOPER

Math Department at UTFSM | Mar – Aug 2018

Developed and deployed an application for TA applications and assignments management plus mail deliveries using RoR, Bootstrap, MariaDB, and Nginx. More than 1K users currently active.

FREELANCE SOFTWARE DEVELOPER

National Congress of Chile | Apr 2017 – Jan 2018

Developed and deployed software to verify interest and patrimony declarations of members of the Congress by matching their declarations with records from the national civil registration and flagging any mismatch. Developed using RoR, Bootstrap, MariaDB, and Nginx.

INTERNSHIP

Latam Airlines Group | Jan – Mar 2014

Developed a platform to show indicators of performance using visualizations by retrieving data from the Zendesk API in a RoR application.

AWARDS AND GRANTS

Graduate School Top Scholar Award

UW – 2019

Top-off fellowship awarded to the top applicant of the program.

Travel Grant

UTFSM – 2017

To attend the ICTAI conference in Boston, USA as a presenter.

Msc. Tuition Scholarship

UTFSM – 2016

Coverage of tuition for the duration of the program.

PUBLICATIONS

Regional Differences on Information Privacy Concerns After Facebook Cambridge Analytica Data Scandal.

González, F., **Figuerola, A.**, López, C., & Aragon, C. (2022, February). Computer Supported Cooperative Work (CSCW), 45 pages.

Information Privacy Opinions on Twitter: A Cross-Language Study.

González, F., **Figuerola, A.**, López, C., & Aragon, C. (2019, November). In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing.

Global Reactions to the Cambridge Analytica Scandal: A Cross-Language Social Media Study.

González, F., Yu, Y., **Figuerola, A.**, López, C., & Aragon, C. (2019, May). In Companion Proceedings of the 2019 World Wide Web Conference.

An Effective Simulated Annealing for Off-line Robot Motion Planning.

Figuerola, A., Montero, E., & Riff, M. C. (2017, November). In 2017 IEEE 29th International Conference on Tools with Artificial Intelligence (ICTAI).