MOHSEN MONJI

PhD Candidate in Sociology, FRQSC Scholar, CAnD3 Doctoral Fellow, CRDCN Emerging Scholar

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EDUCATION

Ph.D. CANDIDATE IN SOCIAL AND CULTURAL ANALYSIS (SOCIOLOGY)   2020 – PRESENT

Concordia University   *Montréal, Canada*

- **Co-Supervisors:** *Matthew Unger, Marie-Pier Joly (Concordia University)*
- **Committee Member**: *Alexis Dennis (McGill University)*

M.A. IN ANTHROPOLOGY   2018
University of Tehran   *Iran*

B.S. IN INDUSTRIAL ENGINEERING   2015
Isfahan University of Technology   *Iran*

RESEARCH INTERESTS

Sociology of Health, Social Determinants of Health, Quantitative Research Methods, Survey Methodology, Applied Social Statistics, Computational Sociology, Critical Data Studies

MANUSCRIPTS IN PROGRESS

- Disparities in Diagnosed Anxiety and Depression among Young Adult in Canada: A Mixed Effects Model Analysis.
- Machine Learning Approaches to Population Mental Health: A Comparison of Logistic Regression, Support Vector Machines, and Decision Trees.

PROFESSIONAL AND RESEARCH EXPERIENCE

DOCTORAL RESEARCHER, CRDCN EMERGING SCHOLAR   **2024 - Present**
The Canadian Research Data Centre Network (CRDCN)   *Montréal, Canada*

Using data from Statistics Canada to analyze disparities in mental health outcomes among youth and young adults in Canada.

DOCTORAL RESEARCHER   **2024 - Present**
The Quebec inter-University Centre for Social Statistics (QICSS)   *Montréal, Canada*

Using data from Statistics Canada to analyze disparities in mental health outcomes among youth and young adults in Canada.

DOCTORAL FELLOW **2024 - Present**

Consortium on Analytics for Data-Driven Decision-Making (CAnD3), McGill University

One-year training fellowship in population data analytics at McGill University.

RESEARCH ASSISTANT **2022 - Present**

Department of Sociology and Anthropology, Concordia University

Research assistant to Professor Matthew Unger in two SSHRC and FRQSC projects on law, criminalization, and Indigenous communities in Canada.

RESEARCH ASSISTANT **Jan 2022- June 2023**

Department of Sociology and Anthropology, Concordia University

Research assistant to Professor Marie-Pier Joly in a project on employment. underemployment, and the mental health of immigrants in Canada.

RESEARCH ASSISTANT **Jun 2023 - Sep 2023**

The Applied Artificial Intelligence Institute, Concordia University

Research assistant to Professor Tristan Glatard, Canada Research Chair on Big Data for Neuroinformatics and the co-director of the Applied Artificial Intelligence Institute. Conducted research on Gender Equity in AI, leading to the development of a set of normative principles for gender equity in AI.
Publication available at: [Normative Principles for Gender Equity in AI](#)

CONTRIBUTING AUTHOR/EDITOR **Jul 2023 - Oct 2023**

All Tech is Human, Responsible Artificial Intelligence Working Group

Contributed to the writing of the 2023 Responsible Tech Guide. Available at: [Responsible Tech Guide](#).

TEACHING EXPERIENCE

LECTURER, *Department of Sociology and Anthropology, Concordia University*

SOCI 212, Statistics I, Winter 2025
- o Designed a course titled "Statistics for Social Good" by incorporating experiential learning to provide students with more opportunities to work with real-world data to examine topics such as income inequality, food insecurity, housing, and disparities in health outcomes.

TEACHING ASSISTANT, *Department of Sociology and Anthropology, Concordia University*

- o Provided office hours, led tutorials, and conducted lab sessions to support student learning.

SOCI 212-B, Statistics I, Fall 2024

SOCI 213-B, Statistics II, Winter 2024

SOCI 213 -CC, Statistics II, Winter 2024

SOCI 213-AA, Statistics II, Fall 2023

SOCI 310, Research Methods, Winter 2022

SOCI 300, Classical Social Theory, Winter 2025, Fall 2024

SOCI 300, Classical Social Theory, Winter 2023, Fall 2022

SOCI 300, Classical Social Theory, Winter 2022, Fall 2021

TEACHING ASSISTANT, *Department of Applied Human Sciences, Concordia University*
AHSC 380, Quantitative Research Methods for Practitioners, Winter 2022

TUTOR, *self-employed, Tehran, Iran, 2016-2020.*
- o Taught Social Statistics and Quantitative Research Methods to undergraduate and graduate social science students.

CONFERENCE PRESENTATION

ODISSEI Conference of Computational Social Science, Utrecht, The Netherlands (2024)

Machine Learning Approaches for Exploring the Social Determinants of Mental Health in Canada, (Absent due to visa delays).

Canada's Social Prescribing Conference- Advancing Social Prescribing for Health & Wellbeing, Toronto, Canada (2024)

Towards Mental Health Equity through Community Building: Social Prescribing as an Emerging Determinant of Mental Health in Canada.

TALKS

Affecting Machines: Normative Principles for Gender Equity in Artificial Intelligence, Fourth Space, Concordia University (2023)

Panelist in a workshop discussing and presenting the Normative Principles for Gender Equity in AI. See the recorded workshop at: Affecting Machines

SCHOLARSHIPS, FELLOWSHIPS, AWARDS , DISTINCTIONS

- *Canadian Research Data Centre Network (CRDCN) Emerging Scholars Grant, Ph.D., 2024.*
  Awarded by CRDCN, Funded by the CFI, CHIRR, SSHRC, Statistics Canada.

- *Quebec Inter-University Center for Social Statistics (QICSS) Entrance Scholarship, PhD, 2024.*

- *Fonds de recherche du Québec (FRQSC) Doctoral Scholarship, 2024-2026.*
  Ranked 1ˢᵗ in Sociology and Demography.

- *Consortium on Analytics for Data-Driven Decision-Making (CAnD3) Fellowship, 2024-2025.*
  First Concordia student to be awarded the CAnD3 fellowship by McGill University.

- *Dialogue McGill's Graduate Research Scholarship, 2023-2024.*

Awarded by McGill University, funded by Health Canada, for my research on "Language Barriers as a Social Determinant of Mental Health among English-Speaking Post-Secondary Students in Quebec: A Literature Review and Policy Analysis".

- **Concordia University Conference Travel Award**, *2024*

- **Concordia University Merit Scholarship**, *Department of Sociology and Anthropology, 2023*

- **Concordia University Graduate Fellowship** *(Ph.D.), 2020-2024*

- **Concordia University International Tuition Award of Excellence** *(Ph.D.), 2020-2024*

- **Ranked 4th.** *in the Iranian University Entrance Exam for M.A. Degrees in Social Sciences (4th in Demography, 5th in Anthropology), 2015.*

- **Ranked 294th** *in the Iranian University Entrance Exam for B.S. Degrees in Engineering, 2008.*

MEMBERSHIPS

- *Canadian Sociological Association*

- *American Sociological Association*

- *Canadian Population Society*

- *Canadian Public Health Association*

- *American Statistical Association*

- *American College Health Association*

- *The Health Equity Network*

- *Women's Health Research Cluster*

- *The Quebec Population Health Research Network*

SKILLS & PROGRAMMING LANGUAGES

- Experienced in **Survey Design and Data Analysis**: survey creation, complex survey data analysis, sampling & nonresponse bias, weighting including bootstrapping for variance estimation.
- Experienced in Statistical **Modeling and Data Analysis** with R and Python: multiple imputations, bootstrapping, mixed-effects models, latent class analysis, I-MAIHDA, logistic regression, ordinal regression, and mediation and moderation analysis.
- Experienced in **Machine Learning** with R and Python: supervised and unsupervised learning including support vector machines, decision trees, k-nearest neighbors, random forests, neural networks, and ensemble methods
- Experienced in **Data Visualization** with R and Python: ggplot2, matplotlib, seaborn, plotly, gganimate, and shiny dashboards for creating static and interactive visualizations.
- Experienced in **Version Control and Collaboration** with Git and GitHub for managing code and collaborating on data science projects with reproducible workflows.
- Experienced in **Mathematical Writing** with LaTeX, R Markdown, Quarto, and Bookdown: Creating academic manuscripts, technical reports, and online course materials with professional formatting and reproducibility.
- Experienced in **Reproducible Research Practices**: R Projects, renv & GitHub
- Experienced in **Statistical and Survey Software**: SPSS, Qualtrics, Google Forms
- Proficient in **Visualization Software**: Tableau

- **Programming Languages**: R and Python.
- Experienced in **Collaboration Tools**: Google Workspace, Microsoft 365, Notion
- Excel, Word, and PowerPoint

CERTIFICATES

Canadian Statistics and Microdata for the Social Sciences, issued by Concordia University, 2023.

Gender-Based Analysis Plus. *Issued by Government of Canada, 2024.*

Gender and Health: Awareness, Analysis, and Action. *Issued by Pan American Health Organization, 2024.*

Health Inequality Monitoring Foundations: Data Sources. Issued by World Health Organization, 2023.

Health Inequality Monitoring Foundations: Health Data Disaggregation. Issued by World Health Organization, 2023.

Inequality Analysis using R: Disaggregated data from surveys. Issued by World Health Organization, 2023.

Research Ethics based on the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS 2: CORE 2022). Issued by Government of Canada, 2024.

VOLUNTEERING

Citizens for Public Justice	**2024-Present**
Migrant Workers Alliance for Change	**2022-2024**

LANGUAGES

English *(Bilingual)*, Persian *(Native)*, French *(Elementary)*

REFERENCES

Matthew P Unger (matthew.unger@concordia.ca) ([homepage](#))
Associate Professor, Department of Sociology and Anthropology, Concordia University.

Marie-Pier Joly (marie-pier.joly@concordia.ca) ([homepage](#))
Assistant Professor, Department of Sociology and Anthropology, Concordia University.

Alexis Dennis (alexis.dennis@mcgill.ca) ([homepage](#))
Assistant Professor, Department of Sociology, McGill University