CHUNYUN MA, PHD

A human behavioural researcher with a passion for teaching data science and a knack for unpacking complex topics to a diverse audience. I excel at finding patterns in seemingly chaotic behavioural data and communicating the stories of those patterns to both non-technical and academic audiences.

SELECTED TEACHING EXPERIENCE

Experiment design and statistics

Carleton University

2021

- Ottawa, ON
- Designed and delivered a series of **online** lectures on data science and statistics using R for graduate students with diverse backgrounds including psychology, computer science, and cognitive science
- Published detailed lecture notes as a book companion⁷ under the Creative Commons License
- Won a university-wide teaching excellence award on nominations by the class

2020 • Experiment design and statistics

Carleton University

Ottawa, ON

- Designed and delivered a series of lectures on data science and statistics using R for graduate students with diverse backgrounds including psychology, computer science, and cognitive science
- 2019 Mixed linear modelling with R

Children's Hospital of Esternal Ontario (CHEO)

Ottawa, ON

- · Presented a workshop to a group of biomedical statisticians
- 2018 Applied statistics with R

Carleton University

Ottawa, ON

- Designed and delivered a series of five workshops for faculty members and graduate students
- 2017 Advanced statistics

Carleton University

Ottawa, ON

- Conducted weekly tutorials, and provided one-on-one coaching session to graduate students
- Won Teaching Assistant Award in 2014 on nominations from students and instructors
- 2016 Cognitive psychology

Carleton University

Ottawa, ON

· Designed and delivered lecture series for undergraduate students



View this CV online with links at chunyunma.me/about-me/

CONTACT

- **y** chun_yun
- github.com/chunyunma
- **6** chunyunma.me

in linkedin.com/in/chunyunma

LANGUAGE SKILLS

R	
AWK	
Python	
С	

Made with the R package datadrivencv.

The source code is available on github.com/chunyunma/resume.

Last updated on 2021-09-16.



SELECTED PROFESSIONAL EXPERIENCE

current 2021

Research and Experimentation Officer

Financial Consumer Agency of Canada

Ottawa, ON

- · Lead statistical analyses and reporting on the COVID Financial Wellbeing survey
- · Contribute to designing an agency-wide research and data sharing platform

2020 2019

Research Psychologist

National Research Council Canada

Ottawa. ON

- · Led an analysis on building evacuation safety in Canada, and published the results in a peer-reviewed journal²
- · Engage stakeholders for a client project on training firefighters using virtual reality
- · Develop and conduct experimental studies on Human Behaviour in Evacuation

2019 2019

Behavioural Data Scientist

Macadamian

• Gatineau. OC

- · Developed statistical models of health care data for clients
- · Evaluate the usability of new and legacy client products
- · Present findings and recommendations to clients

2019 2018

Postdoctoral Fellow

Carleton University

Ottawa, ON

- · Conducted applied cognitive research in general aviation, driving, and maritime navigation
- · Led multiple analyses on pilots' cognitive health using R, and coauthored a conference proceeding on evaluating cognitive health of general aviation pilots using a real-life sized simulator
- · Coached research partners on data analyses and visualizations using R



■ SELECTED COMMUNICATION EXPERIENCE

2021

Where drills differ from evacuations: A case study on Canadian buildings3

Safety Science

· Authored with Kinateder, M., Gwynne, S., Amos, M., & Bénichou, N.

2019

The NASA MATB-II Predicts Prospective Memory Performance During Complex Simulated Flight

International Symposium on Aviation International Symposium on Aviation Psychology

Oayton, OH

· Authored with Benthem, K. V., Shanahan, C., Fraser, A., & Herdman, C. M.

