MOHAMMAD DASTGHEIB

I am a cognitive neuroscientist, with a background in human memory consolidation. My research interests include learning and perceptual memory in older adults as well as its applications in early detection of neurodegenerative disorders.

🎓 EDUCATION

current | 2021

PhD Student, Psychology
University of California, Riverside   📍 Riverside, CA

- Preliminary thesis title: How Locus Coeruleus Integrity in Older Adults Mediates Perceptual and Memory Processes?
- Supervisors: Aaron R. Seitz, PhD; Ilana J. Bennett, PhD

2020 | 2017

M.Sc., Psychology
Queen's University   📍 Kingston, ON

- Thesis: The Effects of Self-Guided Meditation and Napping on Memory Consolidation in Humans
- Supervisor: Hans C. Dringenberg, PhD
- GPA: 3.83

2017 | 2013

Hon. B.Sc., Biological Sciences, Psychology (double major)
York University   📍 Toronto, ON

- Thesis: Are Older Adults' Attitudes about Aging Influenced by a Psychoeducational Program?
- Supervisors: Jill B. Rich, PhD, CPsych (York University); Angela K. Troyer, PhD, CPsych (Baycrest Hospital)

2012 | 2008

B.Eng., Chemical Engineering
Azad University   📍 Tehran, Iran

- unfinished

CONTACT

🏠 mdastgheib.com

✉ mdast003@ucr.edu

🐦 Twitter: @MoDastgheib

in Linkedin: mdastgheib

GitHub: mohdasti

Zoom: mdastgheib

PROGRAMMING SKILLS

Experienced with:

Ⓡ R

M↓ Markdown

Familiar with:

🐍 Python

Git

SQL

MATLAB

LaTeX

LANGUAGES

Persian: Native

English: Proficient

French: Beginner

NATIONALITY

Canadian

Iranian

💼 WORK

2021

Research Assistant I

International Centre for Surgical Safety (ICSS) — Surgical Safety Technologies (SST)

📍 Toronto, ON

- Artificial Intelligence Annotator
- Assisted in the development of a state-of-the-art instance segmentation module for surgical tool detection and tracking
- Applied algorithms for quantifying inter-rater reliability metrics amongst the participating surgical analysts
- Conducted an in-depth surgical review of relevant healthcare papers in the machine learning domain

💻 ACADEMIC EXPERIENCE

current | 2021

Graduate Student Researcher

University of California, Riverside

📍 Riverside, CA

- Data collection and analysis of behavioural and neuroimaging tasks

2019 | 2017

Graduate Research Assistant

Neuroplasticity lab

📍 Queen's University

- Supervising volunteers
- Monitoring human sleep by EEG/EMG/EOG recordings

🖥️ TEACHING EXPERIENCE

2019 | 2018

Graduate Teaching Assistant

Department of Psychology

📍 Queen's University

- Taught occasionally, Held weekly tutorials, Marking assignments and exams
- Advanced Perception (Prof. Niko Troje, Winter 2018)
- Introduction to Cognition (Prof. Monica Castelhano, Winter 2018 and Winter 2019)
- Introduction to Comparative Cognition (Prof. Cella Olmstead, Fall 2019)
- Brain & Behaviour I (Prof. Tyson Baker, Fall 2019)
- History of Modern Psychology (Prof. Cella Olmstead, Winter 2019)

2012 | 2011

Persian Literature and Composition Instructor

Mofid Middle School

📍 Tehran, Iran

- Supervisor: Mostafa Moeini

📊 RESEARCH EXPERIENCE

2020
Research Volunteer
International Centre for Surgical Safety (ICSS)   📍 Toronto, ON
- Data collection and EEG monitoring on surgeons in the OR
- Supervisor: Dr. Bonnie Armstrong, PhD
- cancelled due to COVID-19

2020
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2015
Research Fellow
Toronto General Hospital, Gen. Internal Medicine   📍 Toronto, ON
- Data collection, Completing a database for further studies, Literature review and analysis
- Supervisor: Dr. Mohammad Shafiee, MD

2017
Research Volunteer
Baycrest Hospital   📍 North York, ON
- Running educational programs for older adults and data analysis
- Supervisor: Dr. Sue Vandermorris, PhD, CPsych

2016
Keenan Research Summer Student
St. Michael's Hospital   📍 Toronto, ON
- Observed Memory Clinic and cognitive test administration
- Supervisor: Dr. Corinne E. Fischer, MD

2009
|
2008
Research Volunteer
Tarbiat Modares University, Faculty of Engineering   📍 Tehran, Iran
- Collected data and conducted literature review

📖 PUBLICATION

2019
|
N/A
Critical Care Canada Forum 2019 Abstracts

- Canadian Journal of Anesthesia
- Published abstract

💬 CONFERENCE TALK

2019
The Effects of Self-guided Meditation and Napping on Non-Declarative and Declarative Memory Consolidation
📍 Waterloo, ON
- Canadian Society for Brain, Behaviour, & Cognitive Sciences meeting
- *Dastgheib, M.*, Legro L., Stewart M., Dringenberg H.

Currently, Dr. Dringenberg and I are writing a comprehensive review paper on sleep and memory which includes the findings of my research.

🖼 POSTER PRESENTATIONS

2019 • Discrepancy between Clinical Volume Assessment vs. Laboratory Investigations and Change in the Hyponatremia Management

📍 Tabriz, Iran

· 17th International Congress of Nephrology, dialysis, and transplantation
· Shafiee, M., Mumtaz, M., *Dastgheib, M.*, Rezaei, R.

2019 • Common Etiologies of Hypernatremia and Current Analytic Approaches Used at University Health Network Hospitals

📍 Tabriz, Iran

· 17th International Congress of Nephrology, dialysis, and transplantation
· Shafiee, M., *Dastgheib, M.*, Sarwar, S., Hajighadimi, S., Rezaei, R.

2019 • Current diagnostic approaches to patients with hypernatremia at University Health Network Hospitals

📍 Toronto, ON

· 2019 Critical Care Canada Forum (CCCF)
· Sarwar, S., Shafiee, M., *Dastgheib, M.*, Hajighadimi, S., Ghafarian, H., Rokni, H.

2018 • The Effects of Self-guided Meditation and Napping on Non-Declarative and Declarative Memory Consolidation

📍 Guelph, ON

· Southern Ontario Neuroscience Association (SONA) conference
· *Dastgheib M.*, Legro L., Stewart M., Dringenberg H.

2017 • Are Older Adults' Attitudes about Aging Influenced by a Psychoeducational Program?

📍 Toronto, ON

· Psychology Undergraduate Thesis Poster Day
· *Dastgheib, M.*

2016 • Syndrome of Inappropriate Anti-Diuretic Hormone (SIADH); Risks and Dangers of a Misnomer

📍 Toronto, ON

· 2016 Critical Care Canada Forum (CCCF)
· Shafiee M., Tabataba-Vakili S., Parastandechehr G., Hakimfaal S., Umar S., *Dastgheib M.*, Nazarian, A., Ghaffarian H.

2015 • Enzymatic Activity of Pancreatic α-amylase in Microgravity

📍 Toronto, ON

· 2015 Science Rendezvous. Ryerson University
· Aziz, T., Calabia, D., *Dastgheib, M.*, Dastgheib, M., Farache, R., Geramy, S., Haberfellner, C., Lee, J., Tampus, J., Upshaw, T

COMMUNITY INVOLVEMENT

2019 — 2018

Content Developer
RISE — Research and Information Science Education

📍 Queen's University

· Improving research skills and scientific literacy in students
· Educational outreach at the secondary school level

2019 — 2018

Volunteer
Providence Care Hospital

📍 Kingston, ON

2019 — 2017

Educational Mentorship
QchaT Psychology

📍 Queen's University

2012 — 2008

Student Journal Columnist
Music review in Aan magazine

📍 University of Tehran

HONOURS & AWARDS

2021

Dean's Distinguished Fellowship Award
Graduate Division

📍 University of California, Riverside

2019

Graduate Student Conference Travel Award
Department of Psychology

📍 Queen's University

2018

Graduate Student Conference Travel Award
Department of Psychology

📍 Queen's University

2018

Mitchell and Wilda Andriesky Award
Faculty of Graduate Studies

📍 Queen's University

2017

Entrance Scholarship
Faculty of Graduate Studies

📍 Queen's University

2016

Dean's Honour Roll
Faculty of Science

📍 York University

2012

Dean's Honour Roll
Faculty of Liberal Arts and Sciences

📍 Wichita State University

AFFILIATIONS & MEMBERSHIPS

Current Memberships

· Psychonomic Society
· Cognitive Science Society

● Past Memberships

· Southern Ontario Neuroscience Association (SONA)
· Canadian Society for Brain Behaviour & Cognitive Science(CSBBCS)
· Society for Philosophy and Psychology

☰ SHORT ONLINE COURSES ATTENDED

current
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2018

● **Certificates in R, Python, SQL, and Tableau**
Datacamp

📍 online

2021

● **Research Transparency and Reproducibility Training**
Berkeley Initiative for Transparency in the Social Sciences

📍 online

2021

● **FSL Training**
Oxford Centre for Functional MRI of the Brain

📍 online

2021

● **Training & Certification of MoCA administration**
Montreal Cognitive Assessment

📍 online