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
- GPA: 3.93

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

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✉ mdast003@ucr.edu

🐦 Twitter: @MoDastgheib

in Linkedin: mdastgheib

GitHub: mohdasti

PROGRAMMING SKILLS

Experienced with:

Ⓡ R

MATLAB

Familiar with:

🐍 Python

Git

SQL

Markdown

LaTeX

Google Cloud

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

- Research coordinator
- Data collection and analysis of behavioural, pupillometry, and neuroimaging data
- Supervising research assistants

2019 | 2017

Graduate Research Assistant

Neuroplasticity lab

📍 Queen's University

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

👨‍💻 TEACHING EXPERIENCE

current | 2023

Graduate Teaching Assistant

University of California, Riverside

📍 Riverside, CA

- Taught three classes weekly, Marking assignments and exams
- Perception (Prof. Sarah Maples, Fall 2023)
- Introduction to Psychology (Prof. Annie Ditta, Winter 2024)
- Perception (Prof. Lawrence Rosenblum, Spring 2024)

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 | 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

TBD *Dastgheib, M.*, Bennett, I., Seitz, A. The effect of physical effort on perception and visual memory. (In preparation)

TBD *Dastgheib, M.*, Sun, A., Maniscalco, B., Peters, M., Seitz, A. Analysis of metacognitive efficiency in younger and older adults in auditory and visual perceptual task. (In preparation)

2022 *Dastgheib, M.*, Kulanayagam, A., & Dringenberg, H. C. (2022). Is the role of sleep in memory consolidation overrated?. Neuroscience & Biobehavioral Reviews, 104799.

2019 Critical Care Canada Forum 2019 Abstracts

· Canadian Journal of Anesthesia

💬 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.

🖼 POSTER PRESENTATIONS

2023 The Effect of Physical Effort on Perception and Visual Memory

📍 Huntington Beach, CA

· International Conference on Learning and Memory
· *Dastgheib, M.*, Yaghoubi, K., Kobaissi, H., Alba, J., Bennett, I., Seitz, A.

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

· 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

👤🗖 MENTORSHIP

current
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2022

Undergraduate Mentorship

Running experiment, data cleaning and analysis, QC of pupillometry and neuroimaging data

📍 UC Riverside, Northeastern University

- Jacqueline Alba (UCR)
- Hadi Kobaissi (UCR)
- Shanya Sanof (UCR)
- Thomas Kato (NU)
- Sadhana Gopinath (NU)

🤝 COMMUNITY INVOLVEMENT

2024

Speaker in Aging and Your Brain Symposium

Center for Health Disparities Research

📍 University of California, Riverside

- Overview of data analysis for LC Aging project
- Q&A session for older adults

2023
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2022

Lab Representative

Psi Chi Undergraduate Lab Fair 　📍 University of California, Riverside

2022

Panelist in the cognitive neuroscience area

UCR R'PSYC Conference 　📍 University of California, Riverside

2022

Reviewer

UCR R'PSYC Conference 　📍 University of California, Riverside

- Reviewing and assessment of abstract submissions

2019
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2018

Category Judge

The Frontenac, Lennox and Addington Science Fair 　📍 Kingston, ON

- evaluated projects at the science fair

2019
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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
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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

2023	**Graduate Student Travel Award** UCR GSA	📍 University of California, Riverside
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
- The National Center for Faculty Development and Diversity

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

current
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2024

Google Cloud Skills Boost
Google Cloud

📍 online

· Introduction to Generative AI

2022

Principles of Data Science — extensive graduate-level course
University of California, Riverside

📍 Riverside, CA

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