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

PROGRAMMING SKILLS

Experienced with:

Ⓡ R

⬈ MATLAB

Familiar with:

🐍 Python

Git

SQL

Markdown

LaTeX

LANGUAGES

Persian: Native

English: Proficient

French: Beginner

NATIONALITY

Canadian

Iranian

💼 WORK

Research Assistant I

2021

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

Graduate Student Researcher

current
|
2021

University of California, Riverside

📍 Riverside, CA

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

Graduate Research Assistant

2019
|
2017

Neuroplasticity lab

📍 Queen's University

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

🖥 TEACHING EXPERIENCE

Graduate Teaching Assistant

current
|
2023

University of California, Riverside

📍 Riverside, CA

- Taught three classes weekly, Marking assignments and exams
- Perception (Prof. Sarah Maples, Fall 2023)

Graduate Teaching Assistant

2019
|
2018

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

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

📍 Surf City, 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
|
2022
● Undergraduate Mentorship

Running experiment, data cleaning and analysis

📍 University of California, Riverside

· Jacqueline Alba
· Hadi Kobaissi

🤝 COMMUNITY INVOLVEMENT

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
|
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

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
|
2018

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

📍 online

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