



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

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|----------------------|--|
| current

2021 | <ul style="list-style-type: none">● 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 | <ul style="list-style-type: none">● 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 | <ul style="list-style-type: none">● 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 | <ul style="list-style-type: none">● B.Eng., Chemical Engineering
Azad University  Tehran, Iran• unfinished |

CONTACT

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 [Twitter: @MoDastgheib](https://twitter.com/MoDastgheib)

 [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
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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
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2017

● Graduate Research Assistant

Neuroplasticity lab

📍 Queen's University

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



TEACHING EXPERIENCE

current
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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
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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 Castelhana, 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
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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 Vander Morris, 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
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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., Calabria, 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

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2017

Educational Mentorship

QchaT Psychology

📍 Queen's University

2012
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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

*This CV was made with the R
package [pagedown](#) and
[datadrivencv](#).*

Code available on [GitHub](#).

*Last updated on 2024-03-28. The
most recent version of this CV is
[available here](#).*