

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
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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
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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
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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
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2008

B.Eng., Chemical Engineering

Azad University

📍 Tehran, Iran

- unfinished

CONTACT

🏠 mdastgheib.com

✉️ mdast003@ucr.edu

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

in LinkedIn: [mdastgheib](#)

🐙 GitHub: [mohdasti](#)

PROGRAMMING SKILLS

Experienced with:

📊 R



MATLAB

Familiar with:

🐍 Python

🔑 Git

🗄️ SQL

📄 Markdown

ℒaTeX

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
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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

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 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
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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**
📍 Long Beach, CA
 - International Conference on Learning and Memory
 - *Mohammad Dastgheib*, Kimia Yaghoubi, Hadi Kobaissi, Jacqueline Alba, Ilana Bennett, Aaron Seitz
- 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?
 - Psychology Undergraduate Thesis Poster Day
 - *Dastgheib, M.*
 - Toronto, ON
- 2016
 - Syndrome of Inappropriate Anti-Diuretic Hormone (SIADH); Risks and Dangers of a Misnomer
 - 2016 Critical Care Canada Forum (CCCCF)
 - Shafiee M., Tabataba-Vakili S., Parastandechehr G., Hakimfaal S., Umar S., *Dastgheib M.*, Nazarian, A., Ghaffarian H.
 - Toronto, ON
- 2015
 - Enzymatic Activity of Pancreatic α -amylase in Microgravity
 - 2015 Science Rendezvous. Ryerson University
 - Aziz, T., Calabria, D., *Dastgheib, M.*, Dastgheib, M., Farache, R., Geramy, S., Habberfellner, C., Lee, J., Tampus, J., Upshaw, T
 - Toronto, ON



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	<ul style="list-style-type: none"> ● Volunteer 	<ul style="list-style-type: none"> 📍 Kingston, ON
2019 2017	<ul style="list-style-type: none"> ● Educational Mentorship 	<ul style="list-style-type: none"> 📍 Queen's University
2012 2008	<ul style="list-style-type: none"> ● Student Journal Columnist 	<ul style="list-style-type: none"> 📍 University of Tehran
	Music review in Aan magazine	



HONOURS & AWARDS

2023	<ul style="list-style-type: none"> ● Graduate Student Travel Award 	<ul style="list-style-type: none"> 📍 University of California, Riverside
	UCR GSA	
2021	<ul style="list-style-type: none"> ● Dean's Distinguished Fellowship Award 	<ul style="list-style-type: none"> 📍 University of California, Riverside
	Graduate Division	
2019	<ul style="list-style-type: none"> ● Graduate Student Conference Travel Award 	<ul style="list-style-type: none"> 📍 Queen's University
	Department of Psychology	
2018	<ul style="list-style-type: none"> ● Graduate Student Conference Travel Award 	<ul style="list-style-type: none"> 📍 Queen's University
	Department of Psychology	
2018	<ul style="list-style-type: none"> ● Mitchell and Wilda Andriesky Award 	<ul style="list-style-type: none"> 📍 Queen's University
	Faculty of Graduate Studies	
2017	<ul style="list-style-type: none"> ● Entrance Scholarship 	<ul style="list-style-type: none"> 📍 Queen's University
	Faculty of Graduate Studies	
2016	<ul style="list-style-type: none"> ● Dean's Honour Roll 	<ul style="list-style-type: none"> 📍 York University
	Faculty of Science	
2012	<ul style="list-style-type: none"> ● Dean's Honour Roll 	<ul style="list-style-type: none"> 📍 Wichita State University
	Faculty of Liberal Arts and Sciences	



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 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 2023-04-07. The
most recent version of this CV is
[available here](#).