





# 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<br> <br>2021 | <ul style="list-style-type: none"><li>● <b>PhD Student, Psychology</b><br/>University of California, Riverside  Riverside, CA</li><li>• Preliminary thesis title: How Locus Coeruleus Integrity in Older Adults Mediates Perceptual and Memory Processes?</li><li>• Supervisors: Aaron R. Seitz, PhD; Ilana J. Bennett, PhD</li></ul>                                             |
| 2020<br> <br>2017    | <ul style="list-style-type: none"><li>● <b>M.Sc., Psychology</b><br/>Queen's University  Kingston, ON</li><li>• Thesis: <a href="#">The Effects of Self-Guided Meditation and Napping on Memory Consolidation in Humans</a></li><li>• Supervisor: Hans C. Dringenberg, PhD</li><li>• GPA: 3.83</li></ul>                                                                          |
| 2017<br> <br>2013    | <ul style="list-style-type: none"><li>● <b>Hon. B.Sc., Biological Sciences, Psychology (double major)</b><br/>York University  Toronto, ON</li><li>• Thesis: Are Older Adults' Attitudes about Aging Influenced by a Psychoeducational Program?</li><li>• Supervisors: Jill B. Rich, PhD, CPsych (York University); Angela K. Troyer, PhD, CPsych (Baycrest Hospital)</li></ul> |
| 2012<br> <br>2008    | <ul style="list-style-type: none"><li>● <b>B.Eng., Chemical Engineering</b><br/>Azad University  Tehran, Iran</li><li>• unfinished</li></ul>                                                                                                                                                                                                                                    |

## CONTACT

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 [Linkedin: mdastgheib](#)

 [GitHub: mohdasti](#)



[Zoom: mdastgheib](#)

## PROGRAMMING SKILLS

Experienced with:



MATLAB

Familiar with:



WpX

LaTeX

## LANGUAGES

**Persian:** Native

**English:** Proficient

**French:** Beginner

## NATIONALITY



## 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

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



## HONOURS & AWARDS

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