

# 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  
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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  
|  
2008

- **B.Eng., Chemical Engineering**  
Azad University 📍 Tehran, Iran
  - unfinished

## CONTACT

🏠 [mdastgheib.com](http://mdastgheib.com)

✉️ [mdast003@ucr.edu](mailto:mdast003@ucr.edu)

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

🌐 LinkedIn: [mdastgheib](https://www.linkedin.com/in/mdastgheib)

📄 GitHub: [mohdasti](https://github.com/mohdasti)

🗣️ Zoom: [mdastgheib](https://zoom.us/j/9191919191)

## PROGRAMMING SKILLS

Experienced with:

📊 R

📈 MATLAB

Familiar with:

🐍 Python

🔑 Git

🗄️ SQL

📄 Markdown

📄 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  
|  
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 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 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  
|  
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

- 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?](#)  Toronto, ON
- Psychology Undergraduate Thesis Poster Day
  - *Dastgheib, M.*

- 2016 ● Syndrome of Inappropriate Anti-Diuretic Hormone (SIADH); Risks and Dangers of a Misnomer
  - 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  $\alpha$ -amylase in Microgravity
  - 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

## COMMUNITY INVOLVEMENT

- 2022 ● Panelist in the cognitive neuroscience area
  - UCR R'PSYC Conference
  - Reviewing and assessment of abstract submissions
- 2019 | 2018 ● Content Developer
  - RISE — Research and Information Science Education
  - Improving research skills and scientific literacy in students
  - Educational outreach at the secondary school level
- 2019 | 2018 ● Volunteer
  - Providence Care Hospital
- 2019 | 2017 ● Educational Mentorship
  - QchaT Psychology
- 2012 | 2008 ● Student Journal Columnist
  - Music review in Aan magazine

## HONOURS & AWARDS

- 2021 ● Dean's Distinguished Fellowship Award
  - Graduate Division
- 2019 ● Graduate Student Conference Travel Award
  - Department of Psychology
- 2018 ● Graduate Student Conference Travel Award
  - Department of Psychology

- 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

### ● 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 2022-08-23. The most recent version of this CV is [available here](#).*