


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

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

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

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

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

PROGRAMMING SKILLS

Experienced with:

 R

 Markdown

Familiar with:

 Python

 Git

 SQL

 MATLAB-SPM12

 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

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 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

- 2019
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N/A
- **Critical Care Canada Forum 2019 Abstracts**
 - Canadian Journal of Anesthesia
 - Published abstract



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.

Currently, Dr. Dringenberg and I are writing a comprehensive review paper on sleep and memory which includes the findings of my research.

- 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 (CCCCF)
 - 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 (CCCCF)
 - 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

COMMUNITY INVOLVEMENT

- 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 | 2017 ● Educational Mentorship
QchaT Psychology 📍 Queen's University
- 2012 | 2008 ● Student Journal Columnist
Music review in Aan magazine 📍 University of Tehran

🏆 HONOURS & AWARDS

- 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

- Cognitive Science Society
- Canadian Society for Brain Behaviour & Cognitive Science(CSBBCS)

● Past Memberships

- Southern Ontario Neuroscience Association (SONA)
- Society for Philosophy and Psychology

☰ SHORT ONLINE COURSES ATTENDED

- current | 2018 ● Certificates in R, Python, SQL, and Tableau
Datacamp 📍 online

2021



Research Transparency and Reproducibility Training

Berkeley Initiative for Transparency in the Social Sciences

📍 online

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

Code available on  [GitHub](#).

*Last updated on 2021-09-16. The
most recent version of this CV is
[available here](#).*