


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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 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://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

current
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2021



Graduate Student Researcher

University of California, Riverside

📍 Riverside, CA

- Data collection and analysis of behavioural and neuroimaging tasks

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 | 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

- 2019 | 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.

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



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 (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., Habermellner, 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
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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

- 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
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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 2021-10-11. The
most recent version of this CV is
[available here](#).*