

Sari Sadiya

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AUTOBIOGRAPHY

Graduate student pursuing a dual Ph.D in computer science under Dr Mohammad Ghassemi as a member of the Human Augmentation and Artificial Intelligence Laboratory (HAAIL) and cognitive neuroscience under Dr Taosheng Liu as a member of the Neuroimaging of Perception and attention Laboratory (NPAL). My main areas of interest are computational cognitive science, neural representations, and computational linguistics.

I am passionate about expanding access to educational opportunities, and have worked as a cellist.

EDUCATION

- **Dual PhD in Psychology and Computer Science** Michigan State University
Academic advisers are Dr Taosheng Liu (PSY) and Dr Mohammad Ghassemi (CSE) Aug. 2017 – present
- **MSc Computer Science with a Cognitive Science specialization** Michigan State University
Academic adviser was Dr Joyce Chai. Sponsored by the Fulbright program. GPA 3.8 Aug. 2015 – May. 2017
- **BSc Mathematics** Technion - Israel Institute of Technology
Final Grade equivalent to a 3.6 GPA Dec. 2009 – Apr. 2013
- **BSc Computer Science** Technion - Israel Institute of Technology
Final Grade equivalent to a 3.6 GPA Dec. 2009 – Apr. 2013

COMPUTER SCIENCE PUBLICATIONS

- 2022: **S. Sadiya**, T. Alhanai, M. Ghassemi; *Feature Imitating Networks*
In Proceedings of the 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
- 2021: **S. Sadiya**, T. Alhanai, M. Ghassemi; *Artifact Detection and Correction in EEG data: A Review*
In Proceedings of the 2021 IEEE International Conference on Neural Engineering (NER).
- 2020: **S. Sadiya**, T. Alhanai, T. Liu, M. Ghassemi; *Unsupervised EEG Artifact Detection and Correction*.
In Frontiers in Digital Health. Volume 2.
- 2020: **S. Sadiya**, T. Alhanai, T. Liu, M. Ghassemi; *EEG Channel Interpolation Using Deep Encoder-decoder Networks*.
In Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM).
- 2018: S. Yang, **S. Sadiya**, Q. Gao, Y. Chai; *Commonsense Action Explanation in Human-Agent Communication*.
In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP).
- 2018: J. Chai, Q. Gao, L. She, S. Yang, **S. Sadiya**, G. Xu; *Language to Action: Towards Interactive Task Learning with Physical Agents*.
In Proceeding of the International Joint Conferences on Artificial Intelligence Organization (IJCAI).
- 2018: H. Karimi, P.C. Roy, **S. Sadiya**, J. Tang; *Multi-Source Multi-Class Fake News Detection*.
The 27th International Conference on Computational Linguistics (COLING).
- 2016: C. Liu, S. Yang, **S. Sadiya**, N. Shuka, Y. He, S. Zhu, and J. Y. Chai; *Joint Learning Task Structures from Language Instruction and Visual Demonstration*.
In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP).

COGNITIVE SCIENCE PUBLICATIONS

- 2022: A. Burgoyne, **S. Sadiya**, L. Harris, M. Becker, J. Brascamp, D. Hambrick; *Revisiting the Self-Generation Effect in Proofreading*
In Psychological Research: Journal of Perception, Attention, Memory, and Action (Revised and Resubmitted)
- 2022: T. Liu, M. Fang, **S. Sadiya**; *Adaptive visual selection in feature space*
(Submitted to Journal of Experimental Psychology)

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

- **Dissertation Completion Fellowship** 2021
Support for Students completing their dissertation, from the Graduate School at MSU. Total value: 5,416\$
- **Cultural Heritage Informatics Fellowship** 2020
Researching digital methods and computational approaches for cultural heritage. Total value: 4,000\$
- **Graduate Office Fellowship** 2020
Awarded to graduate students as a summer assistantship. Total value: 6,942\$
- **Fulbright Scholarship program for international educational exchange** 2015 – 2017
Full Scholarship, Granted by the U.S. Bureau of Educational and Cultural Affairs. Total value: 30,000\$
- **Dean Honour List, Technion - Israeli Institute for Technology.** 2013
Academic Award Given to top 10% of students in program

EXPERIENCE

- **Michigan State University** East Lansing, MI
Instructor Spring 2019
 - **Instructor: Pen-Pal App Independent Study (CSE 490):** Supervised by Dr Josh Nahum, and in cooperation with the Refugee Outreach Collective NGO. In this course 3 students from the MSU CSE department and 3 students from the AppFactory in Dzaleka refugee camp in Malawi collaborated on building a PenPal app to facilitate intercultural relationship building.*Teaching Assistant* Fall 2019-Spring 2020
 - **Teaching Assistant:** (Introduction to Programming, Introduction to AI) Held lab, identified and invited guest lecturers, and contributed to designing course work.*Research Assistant* Aug. 2015 – Aug 2018
 - **Research Assistant - Natural Language Processing:** Human robot interaction, dialogue management, and multi-modal task learning from demonstration. Research funded by the DARPA SIMPLEX program and the DARPA XAI project.
- **Apple Inc.** Matam Center, Haifa, Israel
VLSI Engineer Mar. 2013 - Aug. 2015
- **Technion - Israeli Institute for Technology.** Haifa, 3200003, Israel
 - **CS Industrial Project:** Technion / IBM joint industrial project supervised by Dr T. Salman
 - **Applied Mathematics Project:** Research on “Stable Marriage Problems” supervised by Dr G. Wolansky
 - **Mathematical Analysis Project:** Research on “Andronov Hopf bifurcations” supervised by Dr M. Zhitomerski

SERVICE

- **Computer Environment Committee** Michigan State University
Department of Computer Science Graduate Student representative 2017-2019
- **Engineering Graduates Studies Committee** Michigan State University
Department of Computer Science Graduate Student representative 2017-2018
- **Reviewer**
AAAI Conference on Artificial Intelligence (2017, 2022), EMNLP-IJCNLP Conference on Empirical Methods in Natural Language (2019). IEEE Conference on Big Data (2018). IEEE/CVF Conference on Computer Vision and Pattern Recognition (2018), ACM Conference on Intelligent User Interfaces (2016).

TECHNICAL SKILLS

Python: TensorFlow, Sklearn, Numpy, Pandas.

Extensive knowledge of Verilog and SVA for hardware design and verification.

C / C++: Android app development, openCV for image processing.

Matlab: MGL for experimental psychophysics.

Unix: Experience with Tcl, CShell.

LANGUAGES

- **Arabic:** Native Language.
- **Hebrew:** Native Language.
- **English:** High Level of writing, reading, and speaking abilities (107 Tofel Score).
- **French:** Intermediate level.

COMMUNITY INVOLVEMENT

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| Project Director | 2018 - present |
| • <i>The Refugee Outreach Collective (established 2015) is 501(c)(3) non-profit that leverages university resources and networks to expand access to educational opportunities to those who have experience with forced displacement.</i> | |
| English Tutor through Paper Airplanes | 2018 |
| • <i>Tutoring conflict-affected individual from the MENA region through Skype.</i> | |
| Co-founder at “Almahata | 2013-2017 |
| • <i>‘Almahata Youth Cooperative’, was a non-profit cooperative aiming to provide an open space for cultural activities in Haifa. The cooperative functioned daily, hosting over 300 lectures, workshops, book launchings and independent film screenings.</i> | |

ADDITIONAL EXPERIENCE

Professional cellist. Composed and performed music for multiple projects. Played in several orchestras (most notably the Tarshiha Ensemble). Collaborated with many contemporary artists. Performed both locally and internationally.