

# Sunny / Sanaz Dorri Sedeh

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## RESEARCH INTERESTS

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My research focuses on environmental neuroscience and neurourbanism, examining how outdoor, indoor, and natural environments influence neural, physiological, and behavioral responses. I am using EEG, fNIRS, and psychophysiological measures to study how exposure to heat and air pollution affects cognition, stress, and mood, with implications for student well-being and environmental design.

## EDUCATION

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### Ph.D. in Experimental Psychology

*Aug 2025 – Expected 2029*

Washington State University, Pullman, Washington

Advisor: Kimberly L. Meidenbauer, Ph.D. | Fall Semester GPA: 4.00

### M.S. in Cognitive Sciences and Technologies (English-taught program)

*2021 – 2023*

National Research University Higher School of Economics, Moscow, Russia

GPA: 8.67/10 (U.S. equivalent: 3.86)

Master's Thesis: "Psychophysiological Study of Emotional Responses to Environments: Effects of 3D Urban Environments on Stress Response"

Advisors: Vladimir Kosonogov, Ph.D.; Vasily Klucharev, Ph.D.

### M.A. in Clinical Psychology

*2016 – 2019*

Islamic Azad University, Isfahan (Khorasgan) Branch, Iran

GPA: 19.21/20 (U.S. equivalent: 4.00) — Graduated with Honors

Master's Thesis: "Effect of the PERMA Model on the Environmental Behavior of Women and Men"

Advisor: Asghar Aghaie, Ph.D.

### B.A. in Psychology

*2009 – 2013*

Payame Noor University, Isfahan, Iran

GPA: 17.33/20 (U.S. equivalent: 3.70) — Graduated with Honors

Bachelor's Thesis: "Investigating the Relationship Between Trends Toward Fashion and Narcissism"

Advisor: Karim Asgari, Ph.D.

## HONORS, AWARDS & FELLOWSHIPS

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- HSE Applied Research Development Fund (Grant No. 075-15-2022-325), Apr 2022 – Aug 2022 — Supervisor: Oksana Zinchenko, Ph.D.; Role: Research Assistant (experimental design, data collection, analysis)
- Open Doors Russian Government Scholarship (Full Scholarship Winner), 2021
- Ranked 1st among M.A. graduates, Islamic Azad University, 2019
- Ranked 2nd among B.A. Psychology graduates, Payame Noor University, 2013

## GRANT PROPOSALS

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- Dorri Sedeh, S. "Greening the Campus for Cognitive Resilience: How Heat and Air Pollution Affect Student Stress, Mood, and Cognition." Grant proposal submitted to the Graduate Boeing Fellowship in Environmental Studies (to be submitted in March 2026).
- Dorri Sedeh, S. (2026). Grant proposal submitted to the Marchionne Summer 2026 Research Fellowships for Psychology Graduate Students (under review).

## PEER-REVIEWED PUBLICATIONS

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- Dorri Sedeh S, Kosonogov V, Kerimova N, Meidenbauer KL and Klucharev V (2026) How virtual urban green spaces influence stress and risk-taking. *Front. Psychol.* 17:1710257. doi: 10.3389/fpsyg.2026.1710257
- Gorodnicheva, Y., Dorri Sedeh, S., & Zinchenko, O. (2025). Emotional framing as a context for perceiving violations of social norms. *Sociological Journal*, 1, 130–138. <https://doi.org/10.17323/1813-8918-2025-1-130-138>
- Dorri Sedeh, S., & Aghaei, A. (2024). The effectiveness of PERMA model education on university students' well-being. *Journal of Education & Health Promotion*, 13, 338. doi:10.4103/jehp.jehp\_840\_23
- Dorri Sedeh, S., Aghaei, A. (2020). "PERMA Protocol: A Way to Achieve Well-Being." Medad Sepid Publication, Isfahan, Iran (Book).

## MANUSCRIPTS UNDER REVIEW & PREPRINTS

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- Meidenbauer, K. L., Seccia, A., Hocker, K., Duffy-Greslo, K., Freeman, T. R., Dorri Sedeh, S., ... Fyfe-Johnson, A. (2025). Nature is nurture: A pilot study of neural correlates of healthy cognition and environmental predictors in children attending a nature-based public school. Preprint.

## CONFERENCE SUBMISSIONS (UNDER REVIEW / SUBMITTED)

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- Dorri Sedeh, S., Freeman, T., Fyfe-Johnson, A., & Meidenbauer, K. L. (2026, May). Assessing the neurocognitive benefits of attending a nature-based school: An fNIRS pilot study. Abstract submitted to the Western Psychological Association Annual Convention.

## CONFERENCE PRESENTATIONS

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- Dorri, S., Kosonogov, V., Kerimova, N., Meidenbauer, K. L., & Klucharev, V. (2026). The influence of immersive urban green spaces on stress recovery and risk-taking. Poster to be presented at the International Congress of Applied Psychology (ICAP), Florence, Italy.
- Dorri Sedeh, S., Stier, A. J., Schertz, K. E., Berman, M. G., & Meidenbauer, K. L. (2026, March 26). Environmental predictors of delay discounting: Results from a correlational study in Chicago [Poster presentation]. 2026 Academic Showcase Expo, Washington State University, Pullman, WA, United States.
- Dorri Sedeh, S. (2026, February). Environmental predictors of delay discounting: Results from a correlational study in Chicago. Poster presented at the Society for Personality and Social Psychology Annual Convention.
- Dorri Sedeh, S. (2024, September). The stress-relieving impacts of green and urban 360-degree environments. Invited virtual talk, APA Division 34 Annual Conference.
- Dorri Sedeh, S. (2019). Investigating the relationship between narcissism and fashion trends in women. Oral presentation, International Conference of Modern Research in Psychology, Tbilisi, Georgia.

## EDITORIAL & PEER REVIEW ACTIVITIES

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- Ad hoc Reviewer, *Journal of Environmental Psychology*, 2025

## RESEARCH EXPERIENCE

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### Ph.D. Student Researcher

*January 2025 – Present*

*Social Cognitive Environmental Neuroscience (SCENE) Lab, Washington State University, Pullman, Washington*

- Evaluating the neurocognitive benefits of attending a nature-based school: insights from fNIRS and cognitive assessment
- Designs experimental paradigms examining heat, air pollution, cognition, and well-being
- Collaborates on lab project experiments

### Research Assistant

*August 2023 – Present*

*Catholic University of the Sacred Heart, Milan, Italy (remote) | Supervisor: Alice Chirico, Ph.D.*

- Collaborates on immersive VR-nature studies examining stress and affective responses
- Assists with experimental design and 360° video stimulus development

### Researcher

December 2021 – June 2023

*International Laboratory of Social Neurobiology, Higher School of Economics, Moscow, Russia | Supervisor: Vladimir Kosonogov, Ph.D.*

- Led master's thesis research involving EEG and psychophysiological recordings
- Conducted 130+ EEG and 220+ physiological sessions (SCR, EMG, PPG, respiration)
- Designed VR-based stress and norm-violation paradigms

### Lab Assistant, Neurocognitive Mechanisms of Emotion Regulation

May – Aug 2022

*Supervisor: Vladimir Kosonogov, Ph.D.*

- Assisted in EEG and psychophysiological data collection for emotion-regulation experiments

## TEACHING EXPERIENCE

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### Graduate Teaching Assistant

August 2025 – December 2025

*Washington State University, Pullman, Washington*

- Psych 223: Psychology of Happiness — Instructor: Kimberly L. Meidenbauer, Ph.D.
- Psych 490: Special Topics in Psychology — Instructor: Amanda Stueber, Ph.D.

### Graduate Teaching Assistant

January 2026 – May 2026

*Washington State University, Pullman, Washington*

- Psych 223: Psychology of Happiness — Instructor: Kimberly L. Meidenbauer, Ph.D.
- Psych 466: Environmental Psychology — Instructor: Kimberly L. Meidenbauer, Ph.D.

## INVITED GUEST LECTURES

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- Dorri Sedeh, S. (2026, April 20). Guest lecture, Psych 223: Psychology of Happiness. Washington State University. Invited by Kimberly L. Meidenbauer, Ph.D.
- Dorri Sedeh, S. (2026, March 30). Guest lecture, Psych 446: Environmental Psychology. Washington State University. Invited by Kimberly L. Meidenbauer, Ph.D.

## COURSE DEVELOPMENT & INSTRUCTIONAL SUPPORT

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- Designed PERMA model and life satisfaction questionnaires in Qualtrics, implementing automated scoring and grading to improve accessibility and streamline student assessment.

## TECHNICAL SKILLS

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Methods: EEG, fNIRS, SCR, EMG, PPG, VR-based experimentation

Software: PsychoPy, OpenSesame, E-Prime, StreamVR

Analysis: R, SPSS, MNE-Python, Brainstorm

Languages: Persian (native), English (advanced)

## CLINICAL & COMMUNITY EXPERIENCE

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### Clinical Counselor (Children)

*Chatre Mehrabani Counseling and Psychological Center, Iran*

- Provided counseling support for children and families in a clinical setting

## LEADERSHIP EXPERIENCE

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**Executive Committee Member***March 23 – April 21, 2019**First National Seminar on Psychodrama & Couples Therapy, Isfahan, Iran***Secretary, Executive Committee***November 15–17, 2017**4th International Congress on Psychosomatic Medicine, Isfahan, Iran***PROFESSIONAL DEVELOPMENT & TRAINING**

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- Introduction to Neuroeconomics: How the Brain Makes Decisions — National Research University Higher School of Economics (Feb – Jun 2022)
- Data Science Summer School — Herite University (2022)
- TCPS 2: CORE Research Ethics Certification — Tri-Council Policy Statement (2022)
- MRI Safety Mini-Course (4-hour training) — Department of Psychology, HSE University Moscow (2021)
- Balint Clinical Training Sessions — Chatre Mehrabani Counseling Center, Isfahan (2019)
- Art as a Contextual Therapy Workshop — International Congress on Psychosomatic Medicine (2017)
- Administration & Clinical Interpretation of MMPI Workshop — Psychosomatic Medicine Congress (2017)
- Developmental Psychological Aspects in Child & Adolescent Psychotherapy Workshop — Isfahan University (2014)
- International Symposium on Psychosomatic Disorders — Marburg University & Isfahan University of Medical Sciences (2014)