

# ORHAN SOYUHOS

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## EDUCATION

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**University of California - Davis, United States** Sep 2022-Present

*Ph.D. student, Psychology — Designated Emphasis in Neuroengineering*

Advisor: Xiaomo Chen, Ph.D.

**University of Trento, Italy** Sep 2019-Mar 2022

*M.Sc., Cognitive Science — Grade: 110/110*

Thesis Title: *Functional Connectivity Fingerprints of Frontal Eye Field and Inferior Frontal Junction.*

Advisor: Daniel Baldauf, Ph.D.

**Bogazici University, Turkey** Sep 2014-Jan 2019

*B.A., Philosophy — Grade: 3.29/4.0 | Honors student*

**KU Leuven, Belgium** Feb 2017-Jul 2017

*Exchange Student, Philosophy*

## RESEARCH EXPERIENCE

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**Graduate Researcher** | *Cognitive Control Lab, UC Davis* Aug 2023-Present

Mentor: Xiaomo Chen, Ph.D.

Project: *Selective modulation of intrinsic neuronal dynamics in the frontal eye field during parietal cortex inactivation.*

**Research Assistant** | *Attention Network Group, CIMeC* Apr 2022-Aug 2022

Mentor: Daniel Baldauf, Ph.D.

Project: *Intrinsic fMRI connectivity of the dorsal vs. ventral lateral prefrontal cortex.*

**Research Intern** | *Attention Network Group, CIMeC* Mar 2021-Mar 2022

Mentor: Daniel Baldauf, Ph.D.

Project: *Frequency-specific functional couplings of the Frontal Eye Field and Inferior Frontal Junction.*

**Research Intern** | *Donders Institute for Brain, Cognition, and Behaviour* Nov 2020-Feb 2021

Mentors: Yağmur Güçlütürk, Ph.D and Umut Güçlü, Ph.D

Project: *Naturalistic video reconstruction from fMRI activity by leveraging eye-tracking.*

## TEACHING EXPERIENCE

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**Teaching Assistant** | *University of California - Davis* 2 quarters

Courses: *Psychology of Emotion (PSC 154) and Neurobiology Foundations (NPB 110B).*

## PUBLICATIONS AND MANUSCRIPTS

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**Soyuhos, O.**, Moore, T., Chaudhuri, R., & Chen, X. (2024). Posterior parietal cortex regulates neural timescales and stimulus-driven attentional modulation in the prefrontal cortex. *BioRxiv*, 2025-01. <https://doi.org/10.1101/2024.09.30.615928>.

**Soyuhos, O.** & Baldauf, D. (2023). Functional connectivity fingerprints of the frontal eye field and inferior frontal junction suggest spatial versus nonspatial processing in the prefrontal cortex. *The European journal of neuroscience*, 57(7), 1114–1140. <https://doi.org/10.1111/ejn.15936>.

## PRESENTATIONS

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- Soyuhos, O.**, Moore, T., Chaudhuri, R., & Chen, X. (2024). Posterior Parietal Inactivation Alters Intrinsic Neural Timescales and Attentional Processing in Frontal Eye Field Neurons. Talk given at the Bay Area Vision Research Day (BAVRD), Berkeley, CA, USA.
- Soyuhos, O.**, Moore, T., Chaudhuri, R., & Chen, X. (2023). Inactivation of Parietal Cortex Neurons Increases the Intrinsic Timescales of the Frontal Eye Field. Poster presented at the Society for Neuroscience (SFN) annual meeting, Washington, D.C., USA.
- Soyuhos, O.** & Baldauf, D. (2022). Functional Connectivity Fingerprints of Frontal Eye Field and Inferior Frontal Junction. Poster presented at the Vision Sciences Society (VSS) annual meeting, Online, USA.

## GRANTS AND SCHOLARSHIPS

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National Science Foundation Research Training (2152260) NeuralStorm Fellowship (\$55k)	2023-2024
Research Assistant Fellowship at CIMeC funded by the Fondazione Caritro (\$2.5k)	2022
Erasmus+ Internship Grant (\$4k)	2020-2021
Italian Ministry of Foreign Affairs and International Cooperation (MAECI) (\$12k)	2019-2021
Mehmet Zorlu Foundation Success Scholarship (\$16k)	2013-2018
Erasmus+ Study Grant (\$2k)	2017

## TECHNICAL AND LANGUAGE SKILLS

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**Programming Languages:** MATLAB, Python, R.

**Software and Tools:** Brainstorm, EEGLAB, Fieldtrip, SPM12, PsychToolbox, Scikit-learn, PyTorch, and Adobe Illustrator.

**Languages:** Turkish (native) and English.

## ADDITIONAL TRAINING AND CERTIFICATIONS

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Neural Networks in Neuroscience   UniTrento	Dec 2020
Deep Learning Specialization   DeepLearning.AI	Dec 2020
MATLAB Fundamentals   MathWorks	Jul 2020
Machine Learning   Stanford Online	Mar 2018
Introduction to Computer Science and Programming Using Python   MITx	Nov 2016