

Emin Serin

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Education

Present - PhD in Neuroscience, Bernstein Center for Computational Neuroscience Berlin, Germany

Present - PhD in Neuroscience, Charité – Universitätsmedizin Berlin, Germany
PhD Fellow at Einstein Center for Neurosciences Berlin

2019 - MSc in Mind and Brain, Track Brain, Humboldt-Universität zu Berlin, Germany
GPA 1.1 (DE)
Thesis title: “NBS-Predict: The Prediction-based Extension of Network-based Statistic”

2016 - BSc in Psychology, İzmir University of Economics, Turkey,
GPA 3.99 (TR), summa cum laude

Publications

Serin, E., Zalesky, A., Matory, A., Walter, H., & Kruschwitz, J.D. (2021). NBS-Predict: A Prediction-based Extension of the Network-based Statistic. *NeuroImage*, 244, 118625.

Serin, E., Önder, E., Y., Senol, A. D., & Erdeniz, B. (2018). Zindeleşme Ölçeği'nin Türkçe'ye Uyarlanması [Turkish Version of the Short-version Revised Restoration Scale]. *Türk Psikoloji Yazıları*, 21 (41).

Erdeniz, B., **Serin, E.**, Ibadi, Y., & Tas, C. (2017). Decreased Functional Connectivity in Schizophrenia: The Relationship between Social Functioning and Graph Theoretical Network Measures. *Psychiatry Research: Neuroimaging*, 270, 22-31.

Metin B, Goktepe, A.K., Kaya B.S., **Serin, E.**, Tas, C., Dolu, F., & Tarhan, N. (2017). EEG Findings During Flow State. *The Journal of Neurobehavioral Sciences*, 4 (2), 47-52.

Poster Presentations

Erdeniz, B., **Serin, E.**, İbadi, Y. & Tas, C. (2016). *Decreased Functional Connectivity in Schizophrenia: The Relationship Between Social Functioning and Graph Theoretical Network Measure*. Society of Applied Neuroscience Meeting. Corfu, Greece.

Erdeniz, B., **Serin, E.**, İbadi, Y., & Tas, C. (2016). *Decreased Functional Connectivity in Schizophrenia: The Relationship Between Social Functioning and Graph Theoretical Network Measures*. Fifth Biennial Conference on Resting State Brain Connectivity. Vienna, Austria.

İbadi, Y., **Serin, E.**, Krzan, K. K., Erkmen, H., Tarhan, N., & Taş, C. (2015) *Brain Correlates and Neuropsychology of Social Approach and Avoidance Behaviors in Schizophrenia*. Annual Conference on Clinical Neurophysiology and NeuroImaging. Munich, Germany

Research Experience

Charité – Universitätsmedizin Berlin, Berlin, Germany, April 2021 - Present,
Research Assistant

Research Group: Network Neuroscience and Machine Learning (Johann D. Kruschwitz)

Project: Deep Connectome

- Developing a Python library called Deep Connectome ([Github: DeepConnectome](#)) to perform connectome-based deep learning predictions.

Charité – Universitätsmedizin Berlin, Berlin, Germany, July 2018 - February 2019,
Master's Thesis Project

Project: NBS-Predict: The Prediction-based Extension of Network-based Statistic.

Supervisors: Johann D. Kruschwitz, Henrik Walter

- Designed and developed NBS-Predict toolbox ([Github: NBS-Predict](#)).
- Developed functions to generate synthetic random, scale-free and small-world networks.
- Run NBS-Predict on synthetic network data, rs-fMRI data acquired from patients with schizophrenia and healthy controls as well as on rs-fMRI data from 1200 subjects release of the Human Connectome Project.

Humboldt Universität zu Berlin, Berlin, Germany, January 2018 - February 2019,
Research Assistant

Research Group: Vittorio Gallese and Laura Kaltwasser

Project: The self in face identity processing with fast periodic visual stimulation

- Developed a package in MATLAB to generate phase-scrambled images.
- Programmed SSVEP paradigm for self and familiar face perception.

- Acquired EEG data and analyzed it using EEGLAB.

Humboldt Universität zu Berlin, Berlin, Germany, March 2017 - November 2017,
Laboratory Rotation.

Project: Development of socio-cultural identity (Vittorio Gallese, Laura Kaltwasser).

- Assisted in programming tasks.
- Acquired and preprocessed ECG and GSR data.

İzmir University of Economics, İzmir, Turkey, October 2015 – June 2016,
Research Assistant

Project: Attention restoration using VR environment (Burak Erdeniz)

- Designed and programmed tasks on attention restoration.
- Acquired and analyzed behavioral and ECG data.
- Prepared publication.

Üsküdar University & NP İstanbul, İstanbul, Turkey, June 2015 – August 2015,
Research Intern

Project: Structural and functional connectivity in Schizophrenia (Cumhur Tas).

- Assisted Assoc. Prof. Cumhur Tas in preprocessing and analyzing VBM, DTI and fMRI data using SPM, FSL and DSI Studio.

Ruhr University Bochum, Biopsychology Laboratory, Bochum, Germany, Summer 2014,
Research Intern

Project: Hemispheric asymmetry in pigeons (Onur Güntürkün, Emre Ünver).

- Acquired single-unit recording data from pigeons.

Scholarships

2020 - Present, PhD Scholarship, Einstein Center for Neurosciences Berlin

2011 - 2016, Bachelor Scholarship, Izmir University of Economics.

Teaching Experience

Izmir University of Economics, Izmir, Turkey, 2015 Summer Semester. Teaching Assistant in “Laboratory Techniques and Instrumentation in Psychology” course.

- Taught undergraduate psychology students how to design and program experiments for their own projects

Technical Skills

Languages: MATLAB (fluent), Python (good knowledge), R (basic knowledge).

Softwares/Tools/APIs: scikit-learn, PyTorch, SPM , FSL, SPSS, Tableau 10, SuperLAB, Psychtoolbox.