

Efe Soyman

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Education

- 2015-2018 **PhD in Behavioral and Systems Neuroscience**, Rutgers University, New Brunswick, NJ, USA. *The effects of passive familiarization on neural and behavioral discrimination of acoustic signals.* Advisor: David S. Vicario
- 2012-2015 **MS in Behavioral and Systems Neuroscience**, Rutgers University, New Brunswick, NJ, USA. *Songbird premotor nucleus HVC auditory responses are robust, dynamic, and reflect learned predictive values in awake zebra finches.* Advisor: David S. Vicario
- 2010 **Exchange in Social and Behavioral Sciences**, Tilburg University, Tilburg, the Netherlands
- 2006-2012 **BA in Psychology**, Bogazici University, Istanbul, Turkey

Appointments

- 2020-current **Assistant Professor of Psychology and Principal Investigator of the Social Cognitive and Affective Neuroscience (SCAN) Lab**, Kadir Has University, Istanbul, Turkey
- 2018-2020 **Postdoctoral Researcher in Social Brain Lab**, Netherlands Institute for Neuroscience, Amsterdam, the Netherlands. Advisors: Christian Keysers and Valeria Gazzola
- 2016 **Instructor**, Bogazici University, Istanbul Turkey
- 2012-2018 **Graduate Researcher in Neurobiology of Vocal Communication Lab**, Rutgers University, New Brunswick, NJ, USA. Advisor: David S. Vicario
- 2009-2012 **Research Assistant in Psychobiology Lab**, Bogazici University, Istanbul, Turkey. Advisor: Resit Canbeyli

Publications

- under review* **Soyman, E.**, Bruls, R., Ioumpa, K., Mueller-Pinzler L., Gallo S., van Straaten E.C.W., Self, M., Onuki, Y., Baaijen J.C., Idema S., Keysers C., Gazzola V. *Intracortical human recordings reveal intensity coding for the pain of others in the insula.*
- 2020 Ecevitoglu, A., **Soyman, E.**, Canbeyli, R., & Unal, G. Paw preference is associated with behavioural despair and spatial reference memory in male rats. *Behavioural Processes*, 180, 104254. <https://doi.org/10.1016/j.beproc.2020.104254>
- Hernandez-Lallement, J., Attah, A. T., **Soyman, E.**, Pinhal, C. M., Gazzola, V., & Keysers, C. Harm to others acts as a negative reinforcer in rats. *Current Biology*, 30(6), 949-961. <https://doi.org/10.1016/j.cub.2020.01.017>
- 2019 Han, Y., Bruls, R., **Soyman, E.**, Thomas, R. M., Pentaraki, V., Jelinek, N., Heinemans, M., Bassez, I., Verschooren, S., Pruis, I., van Lierde, T., Carrillo, N., Gazzola, V., Carrillo, M., & Keysers, C. Bidirectional cingulate-dependent danger information transfer across rats. *PLoS Biology*, 17(12), e3000524. <https://doi.org/10.1371/journal.pbio.3000524>

- Soyman, E., & Vicario, D. S.** Rapid and long-lasting improvements in neural discrimination of acoustic signals with passive familiarization. *PLoS ONE*, 14(8), e0221819. <https://doi.org/10.1371/journal.pone.0221819>
- 2018 **Soyman, E., Yilmaz, G. D., & Canbeyli, R.** Head-turning asymmetry: A novel lateralization in rats predicts susceptibility to behavioral despair. *Behavioural Brain Research*, 338, 47-50. <https://doi.org/10.1016/j.bbr.2017.10.008>
- 2017 **Soyman, E., & Vicario, D. S.** Principles of auditory processing differ between sensory and premotor structures of the songbird forebrain. *Journal of Neurophysiology*, 117(3), 12661280. <https://doi.org/10.1152/jn.00462.2016>
- 2015 **Soyman, E., Tunckol, E., Lacin, E., & Canbeyli, R.** Right- but not left-paw use in female rats provides advantages in forced swim tests. *Behavioural Brain Research*, 293, 162-165. <https://doi.org/10.1016/j.bbr.2015.07.027>

Talks

- 2020 *Perceived pain intensity scaling in the insula*. Oral presentation given at the Netherlands Institute for Neuroscience Symposium, Amsterdam, the Netherlands
- 2019 *A cross-species approach to understanding empathy and its dysfunctions*. Oral presentation given to the policy-making team led by Judith Tielen, a representative of the VVD Party in the Tweede Kamer (House of Representatives) of the Netherlands

Poster Presentations

- 2020 **Soyman, E., Bruls, R., Gallo S., Mueller-Pinzler L., van Straaten E.C.W., Baaijen J.C., Idema S., Gazzola V., Keysers C.** *Perceived pain intensity scaling in the insula*. 1st Single Units and Human iEEG Conference, Birmingham, UK. *Abstract accepted, but conference canceled due to Covid-19 restrictions*
- 2017 **Soyman, E., & Vicario, D. S.** *Neural discrimination of novel acoustic signals improves with repeated stimulus presentation*. 47th Annual Meeting of Society for Neuroscience, Washington DC, USA
- 2016 **Soyman, E., & Vicario, D. S.** *Principles of auditory processing in sensory and premotor structures of the songbird forebrain*. 46th Annual Meeting of Society for Neuroscience, San Diego, California, USA
- 2014 Tsoi, S. C., Qureshi, A., Barrientos, A., Aiya, U. V., Pierce, M. L., **Soyman, E.,** Stalbow, D., Ribeiro, S., Vicario, D. S., Pytte, C. L., & Phan, M. L. *Effects of statins on auditory memories, neurogenesis and neuronal morphology in the zebra finch*. 44th Annual Meeting of Society for Neuroscience, Washington DC, USA
- 2013 Aiya, U., Pierce, M. L., Santos, J., **Soyman, E.,** Tsoi, S. C., Vicario, D. S., Pytte, C. L., & Phan, M. L. *Effects of statins on the quality of auditory memories and rate of neurogenesis: An avian model*. 43rd Annual Meeting of Society for Neuroscience, San Diego, California, USA
- 2012 Lacin, E., Tunckol, E., **Soyman, E.,** Yilmaz, D., Caglayan, A., & Canbeyli, R. *Paradoxical prolonged effect of zinc administration in forced swim tests*. 42nd Annual Meeting of Society for Neuroscience, New Orleans, Louisiana, USA
- Tunckol, E., **Soyman, E.,** Dedeoglu, G., Lacin, E., & Canbeyli, R. *Left-pawed rats are more prone to age-related cognitive decline which can be prevented by early experience*. 42nd Annual Meeting of Society for Neuroscience, New Orleans, Louisiana, USA
- Dedeoglu, G., Akcay Usun, H., Caglayan, A., **Soyman, E.,** & Canbeyli, R. *The impact of lateralization as expressed by paw preference on depressive-like behavior and spatial learning in rats*. 42nd Annual Meeting of Society for Neuroscience, New Orleans, Louisiana, USA

- 2011 **Soyman, E., Lacin, E., Tunckol, E., & Canbeyli, R.** *Right- but not left-pawed female and male Wistar rats are protected against behavioral despair induction.* 41st Annual Meeting of Society for Neuroscience, Washington DC, USA
- Soyman, E., Lacin, E., Tunckol, E., & Canbeyli, R.** *Right- but not left-pawed male Wistar rats are protected against behavioral despair manipulation.* 8th Biannual Meeting of International Brain Research Organization, Florence, Italy

Teaching

- 2021 **Neuropsychology and Emotions**, School of Graduate Studies, Kadir Has University
- Emotion**, Department of Psychology, Kadir Has University
- 2020 **Social Neuroscience**, Department of Psychology, Kadir Has University
- Physiological Psychology**, Department of Psychology, Kadir Has University
- 2016 **Introduction to Neuroscience: Brain and Behavior**, Department of Psychology, Bogazici University

Mentoring

- 2020 Eline Ramaaker, MS in Biomedical Sciences, University of Amsterdam
- 2019 Sharmistha Muralidharan, MS in Neurosciences, Vrije University Amsterdam

Honors and Awards

- 2020 Marie Curie Individual Fellowship Pre-evaluation Support, the Scientific and Technological Research Council of Turkey
- 2016, 2017 Professional Development Fund, Rutgers University
- 2010 Erasmus Scholarship, the European Union
- 2006-2011 National Undergraduate Scholarship, the Scientific and Technological Research Council of Turkey

Service

Ad hoc reviewer for *PLoS ONE*