

Gökhan Aydoğan, PhD

Zurich Center for Neuroeconomics (ZNE), University of Zurich

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Research Interests: *Neuroeconomics, Decision Neuroscience, Computational Modeling, Social Cognition, Theory of Mind, Artificial Intelligence, Mental Health*

Education and Training

Zurich Center for Neuroeconomics (ZNE) , University of Zurich Postdoctoral Fellow Department of Economics Advisor: Prof Christian C. Ruff	2018 – present
Decision Neuroscience Lab , Arizona State University Postdoctoral Fellow Department of Psychology Advisor: Prof Samuel M. McClure	2016 – 2018
University of California, Berkeley Department of Economics	2014
University of Munich PhD, Economics Advisor: Prof Martin G. Kocher	2011 – 2015

Positions

Junior Data Analyst at the CBR Management, Munich	2006 – 2011
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Publications

Selected Work

- Aydoğan, G.***, Buergi, N.*, Konovalov, A., & Ruff, C. C. (2024). A neural fingerprint of adaptive mentalization. (R&R at *Nature Neuroscience*).
**equal contribution*
- Aydoğan, G.*** & Ruff, C. C. (2024). New Insights from Gene Expression Patterns on the Neurobiological Basis of Risky Behaviour, *Nature Mental Health*.
- Aydoğan, G.**, Daviet, R., Linner, R. K., Hare, T. A., Kable, J. W., Kranzler, H. R., ... & Nave, G. (2021). Genetic Underpinnings of Risky Behavior Relate to Altered Neuroanatomy. *Nature Human Behaviour*, 1-8.
- Aydoğan, G.**, Jobst, A., D'Ardenne, K., Müller, N., & Kocher, M. G. (2017). The detrimental effects of oxytocin-induced conformity on dishonesty in competition. *Psychological Science*, 28(6), 751-759.
- Aydoğan, G.**, Furtner, N. C., Kern, B., Jobst, A., Müller, N., Kocher, M. G. (2017). Oxytocin Promotes Altruistic Punishment, *Social Cognitive and Affective Neuroscience*.

Additional peer-reviewed publications

- Buerger, N., Konovalov, A., Biegel, C., De Araujo, T., **Aydogan, G.**, & Ruff, C. C. (2024). Neurocomputational signatures of altered adaptive mentalization in autism. (*preprint*).
- Forbes, P., **Aydogan, G.**, Braunstein, J., Todorova, B., Wagner, I., Lockwood, P., ... & Lamm, C. (2024). Acute stress reduces effortful prosocial behaviour. *ELife*.
- Daviet, R., **Aydogan, G.**, Jagannathan, K., Spilka, N., Koellinger, P., Kranzler, H. R., ... & Wetherill, R. (2022). Associations between alcohol consumption and gray and white matter volumes in the UK Biobank. *Nature Communications* 13.
- Kweon, H., **Aydogan, G.**, Dagher, A., Bzdok, D., Ruff, C. C., Nave, G., ... & Koellinger, P. D. (2022). Human brain anatomy reflects separable genetic and environmental components of socioeconomic status. *Science Advances*, 8(20).
- Ballard, I. C., Kim, B., Liatsis, A., **Aydogan, G.**, Cohen, J. D., & McClure, S. M. (2017). More Is Meaningful: The Magnitude Effect in Intertemporal Choice Depends on Self-Control. *Psychological Science*.
- Aydogan, G.**, Flaig, N., Ravi, S. N., Large, E. W., McClure, S. M., & Margulis, E. H. (2018). Overcoming bias: Cognitive control reduces susceptibility to framing effects in evaluating musical performance. *Scientific Reports*, 8(1), 6229.
- Aydogan, G.**, Jobst, A., Loy, F., Dehning, S., Zill, P., Müller, N., & Kocher, M. (2018). The effect of oxytocin on group formation and strategic thinking in men. *Hormones and Behavior*, 100, 100-106.
- Ballard, I. C., **Aydogan, G.**, Kim, B., & McClure, S. M. (2018). Causal evidence for the dependence of the magnitude effect on dorsolateral prefrontal cortex. *Scientific Reports*, 8.

Fellowships, Honors and Grants

University of Zurich Postdoctoral Researcher Grant (<i>CHF 100,240</i>)	2023
University Research Priority Program (URPP), Short Project Grant AdaBD (<i>CHF 176,369</i>)	2022
Project Grant University of Munich (<i>€ 3,000</i>)	2015
NYU Shanghai Neuroeconomics Summer School Fellow (<i>\$ 2,000</i>)	2015
Fellowship for abroad studies (UC Berkeley), Friedrich-Ebert Foundation (<i>€ 10,000</i>)	2014
Friedrich-Ebert Foundation Research Fellowship Grant (<i>€ 65,000</i>)	2012
Research Grants, University of Munich (<i>€ 4,000</i>)	2012
Friedrich-Ebert Fellowship (<i>€ 33,000</i>)	2007

Teaching Experience

Lectures on Research Methods in Cognitive Neuroscience	2020 — 2024
Bachelor and Master Theses on Economics and Neuroeconomics	2015 — 2021
Teaching Assistant for Microeconomics I (Prof. Martin Kocher) Evaluation: <i>very good</i>	2014

Conferences and Invited Talks

Invited Talks

<i>Max-Planck Institute Berlin (Adaptive Rationality), Germany</i>	2024
<i>Psychology Seminar Series, Bilkent University, Turkey</i>	2024
<i>Geneva Finance Research Institute, University of Geneva, Switzerland</i>	2024
<i>Current Topics in Social, Economic and Decision Psychology</i> University of Basel, Switzerland	2019

Conference Talks

Matterhorn Symposium (<i>Talk</i>)	2023
UEA's Behavioral Game Theory Workshop in Norwich (<i>Talk</i>)	2023
ESA World Meeting in Lyon (<i>Talk</i>)	2023
Society for Neuroeconomics in Dublin, Ireland (<i>Poster Spotlight</i>)	2019
Consumer Neuroscience Satellite Symposium in Dublin, Ireland (<i>Talk</i>)	2019
Society for Neuroeconomics in Toronto, Canada (<i>Poster Spotlight</i>)	2017
ESA North America Conference in Tucson, Arizona (<i>Talk</i>)	2016
Social and Biological Roots of Cooperation in Kiel, Germany (<i>Talk</i>)	2015
IMEBESS in Toulouse, France (<i>Talk</i>)	2015
ESA European Meeting in Prague, Czech Republic (<i>Talk</i>)	2014
NeuroPsychoEconomics Conference in Munich, Germany (<i>Talk</i>)	2014

Spring and Summer Schools

Analyzing Neural Time Series Data (by Michael X. Cohen)	2016
Shanghai Neuroeconomics Collective Summer School, NYU	2015

Technical Skills

Programming & computational modelling:	MATLAB & Python
Data analysis, statistics, Machine Learning:	MATLAB, STATA, Python
Experimental design, stimuli presentation:	PsychToolBox, PsychoPy, z-Tree, E-Prime, EyeLink eye-tracking, BrainSight for rTMS and tFUS
Neural data analysis (fMRI/DTI/EEG):	SPM, FSL, ANTs, fmriprep, <i>ERPLAB</i> and <i>EEGLAB</i> .

Ad-Hoc Reviewer

BMC Neuroscience | Frontiers in Behavioral Neuroscience | Genes | Hormones and Behavior | International Journal of Neuropsychopharmacology | Journal of Experimental Behavioral Finance | Journal of Economic Psychology | Journal of Neuroscience | Journal of Neuroscience, Psychology, and Economics | Journal of Personality and Social Psychology | Nature Mental Health | PLOS ONE | PNAS Nexus | Psychoneuroendocrinology | Sciences Advances

Community Services

Program Committee: Society for Neuroeconomics Conference	2023 – 2024
Neuroeconomics Seminar, University of Zurich (organization)	2021 – 2022
Science Exhibition at the <i>Scientifica</i> and <i>BrainFair</i> in Zurich	2021 – 2023
Guest Lecturer at the SCNAT Summer School for Swiss High School Students	2019 & 2021

Fields of Interest

Neuroeconomics, Neurogenomics, Experimental Economics, Behavioral Game Theory, Social Neuroscience

References

Professor Christian C. Ruff

University of Zurich
Department of Economics
Blümlisalpstrasse 10
8006 Zurich, Switzerland

Professor Ernst Fehr

University of Zurich
Department of Economics
Blümlisalpstrasse 10
8006 Zurich, Switzerland

Professor Philipp Koellinger

Vrije Universiteit Amsterdam
Department of Economics
De Boelelaan 1105
1081 HV Amsterdam, Netherlands

Professor Martin Kocher

University of Vienna
Department of Economics
Oskar-Morgenstern-Platz 1
1090 Vienna, Austria