

## Gökhan Aydoğan, PhD

Zurich Center for Neuroeconomics (ZNE), University of Zurich

Blümlisalpstrasse 10, 8006 Zürich

Email: [goekhan.aydogan@econ.uzh.ch](mailto:goekhan.aydogan@econ.uzh.ch)

Website: [www.goekhan-aydogan.com](http://www.goekhan-aydogan.com) OrcID: <https://orcid.org/0000-0003-2187-7912>

### Education and Training

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

### Positions

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<b>Junior Data Analyst</b> at the CBR Management, Munich	2006 — 2011
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### Publications

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#### Selected Work

- Aydoğan, G.\*** & Ruff, C. C. (2024). New Insights from Gene Expression Patterns on the Neurobiological Basis of Risky Behaviour. (forthcoming at *Nature Mental Health*).
- Buergi, N.\*, **Aydoğan, G.\***, Konovalov, A., & Ruff, C. C. (2024). A neural fingerprint of adaptive mentalization. (R&R at *Nature Neuroscience*).  
*\*equal contribution, order determined randomly*
- Buergi, N., Konovalov, A., Biegel, C., De Araujo, T., **Aydoğan, G.**, & Ruff, C. C. (2024). Neurocomputational signatures of altered adaptive mentalization in autism. (*preprint*).
- 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.
- Kweon, H., **Aydoğan, 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).
- Daviet, R., **Aydoğan, 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.
- Ballard, I. C., Kim, B., Liatsis, A., **Aydoğan, 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.**, 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.

#### Additional peer-reviewed publications

Forbes, P., **Aydogan, G.**, Braunstein, J., Todorova, B., Wagner, I., Lockwood, P., ... & Lamm, C. (2024). Acute stress reduces effortful prosocial behaviour. *ELife*.

**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.

**Aydogan, G.**, Furtner, N. C., Kern, B., Jobst, A., Müller, N., Kocher, M. G. (2017). Oxytocin Promotes Altruistic Punishment, *Social Cognitive and Affective Neuroscience*.

#### Fellowships, Honors and Grants

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

#### Teaching Experience

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

#### Conferences and Invited Talks

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##### Invited Talks

<i>Max-Planck Institute Berlin (Adaptive Rationality)</i> , Germany	2024
<i>Psychology Seminar Series, Bilkent University</i> , Turkey	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

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

### Technical Skills

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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

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BMC Neuroscience | Frontiers in Behavioral Neuroscience | Genes | Hormones and Behavior | International Journal of Neuropsychopharmacology | 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

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Program Committee for Society for Neuroeconomics Conference	2023 – 2024
Neuroeconomics Seminar, University of Zurich (organization)	2021 – 2022

Science Exhibition at the *Scientifica* and *BrainFair* in Zurich 2021 – 2023  
Guest Lecture (Research Methods) at the SCNAT Summer School 2019 & 2021

### **Fields of Interest**

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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