

# Gökhan Aydogan

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## Contact Information

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Economics Department  
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## Research Fields

Experimental Economics, Behavioral Economics, Neuroeconomics

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## Education

10/2011 – 10/2015	<b>Ph.D. in Economics</b> Ludwig-Maximilians-University Munich
06/2014 – 08/2014	<b>Summer School</b> University of California Berkeley, USA
10/2008 – 09/2010	<b>M.Sc., Business Studies</b> Ludwig-Maximilians-University Munich
10/2005 – 09/2008	<b>B.Sc., Business Studies</b> Ludwig-Maximilians-University Munich

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## Academic Positions

09/2018 – present	<b>Post-Doctoral Scholar</b> Zurich Center for Neuroeconomics (ZNE), University of Zurich, PI Christian C. Ruff
03/2016 – 08/2018	<b>Post-Doctoral Scholar</b> Decision Neuroscience Lab, Arizona State University, PI Samuel M. McClure

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## Publications

**Aydogan, 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.

**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*.

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.**, 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.

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### Working Papers (submitted)

Daviet, R., **Aydogan, G.**, Jagannathan, K., Spilka, N., Koellinger, P., Kranzler, H. R., ... & Wetherill, R. (2020). Multimodal brain imaging study of 19,825 participants reveals adverse effects of moderate drinking. *BioRxiv*. (R&R at *Nature Communications*).

### Working Papers

**Aydogan, G.**, Kretschmer, J., Brewer, G., McClure, S. M. (2020). The role of attention, motivation and emotion in maintaining self-control: an event-related facial expression analysis.

**Aydogan, G.**, St. Amand, J., Ballard, I. C., Bickel, W., McClure, S. M. (2020). The force of habit: Habitization of time preferences lowers dependence on cognitive control and reduces framing effects.

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### Teaching Experience

02/2020	Research Methods in Cognitive Neuroscience
08/2019	Behavioral Research Methods at the SCNAT Summer School
10/2014 – 02/2015	Teaching Assistant for Microeconomics I (Prof. Martin Kocher) Evaluation: very good
01/2014 – 02/2015	Supervision of Several Bachelor Theses
05/2013	Supervision and Assistance of the Master Thesis: "Oxytocin in the Dictator Game - Personality matters"

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## Grants, Awards and Stipends

04/2012 – 11/2015	Research Fellowship for Ph.D. Students by the Friedrich-Ebert Foundation (worth more than € 65.000,-)
07/2015	Seed Grant for the Project “Predicting self-control in the fMRI” Funded by the Internal Research Fund at University of Munich (€ 3.000,-)
07/2015	Full Scholarship for the 2015 Shanghai Neuroeconomics Summer School (\$ 2.000,-)
04/2013	Research Grant for the Project “Oxytocin and Norm Enforcement in Social Dilemmas” Funded by the Internal Research Fund at University of Munich (€ 1.500,-)
07/2012	Research Grant for the Project “Development of Institutions and Trust” Funded by the Internal Research Fund at University of Munich (€ 2.500,-)
04/2007 – 09/2010	Full Stipend for Bachelors and Masters by the Friedrich-Ebert Foundation (worth more than € 33.000,-)
07/2002	Awarded for Excellence in Physics (High School Graduation: Bavarian Abitur) by the German Physics Foundation (Deutsche Physikalische Gesellschaft)

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## Conferences and Talks

10/2019	Poster Spotlight Talk at the <i>Society for Neuroeconomics</i>
10/2019	Talk at the 8th <i>Consumer Neuroscience Satellite Symposium</i>
03/2019	Invited Talk to <i>Current Topics in Social, Economic and Decision Psychology</i> , University of Basel
10/2017	Poster Spotlight Presentation of the Paper “The Habitization of Self-Control” at the Society for Neuroeconomics Annual Meeting in Toronto, Canada
11/2016	Presentation of the Paper “A playful mind: Cognitive processes in strategic interactions” and the Paper “Preferences for paternalistic decision-making and harm aversion in the cold pressor task” at the ESA North America Conference in Tucson, Arizona
04/2015	Presentation of the Paper “Oxytocin Promotes Altruistic Punishment” at the Social and Biological Roots of Cooperation and Risk Taking Workshop in Kiel, Germany
04/2015	Presentation of the Paper “Oxytocin Promotes Strategic Reasoning” at the IMEBESS in Toulouse, France
09/2014	Presentation of the Paper “Oxytocin Promotes Altruistic Punishment” at the ESA European meeting in Prague, Czech Republic
08/2014	Presentation of the Paper “Oxytocin Promotes Altruistic Punishment” at UC Berkeley, USA
07/2014	Presentation of the Paper “Oxytocin Promotes Altruistic Punishment” at the Center for Neuroeconomics Studies in Claremont, USA

05/2014	Presentation of the Paper “Oxytocin Promotes Altruistic Punishment“ at the NeuroPsychoEconomics Conference in Munich, Germany
07/2013	Presentation of the Paper “The Adverse Effect of Oxytocin on Endogenous Group Formation“ at the Research Symposium of the Psychiatric Clinic at the LMU Munich

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### Spring and Summer Schools

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

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### Other Relevant Skills

Data Analysis:	Statistical Analysis and Structural Equation Modeling with <i>STATA</i> , Big Data Analysis in <i>MATLAB</i> (High Performance Computing on Science Cluster), Machine Learning Tools (e.g. LASSO) with <i>MATLAB</i> , <i>Affectiva</i> (Machine Learning Classifier for Facial Expressions), fMRI and DTI Analysis with <i>FSL</i> and <i>SPM</i> , EEG Analysis with <i>ERPLAB</i> and <i>EEGLAB</i> Toolbox for <i>MATLAB</i> .
Data Collection:	Experimental Economics Lab (MELESSA, ASU, and UZH Laboratory for Experimental and Behavioral Economics) with <i>z-Tree</i> and <i>PsychoPy</i> , Lab in the Field with <i>z-Tree</i> , <i>Qualified User</i> of Philips Achieva 3T scanner, Transcranial Focused Ultrasound (tFUS) with <i>BrainSight</i> , EEG with <i>Curry</i> .
Programming:	<i>MATLAB</i> , Psychtoolbox for <i>MATLAB</i> , <i>z-Tree</i> , Python, <i>PsychoPy</i> , E-Prime, VBA, UNIX.
Languages:	German (Native), English (Fluent), Turkish (Native), Greek and Latin (Basic).

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### Journal Reviewing Service

*BMC Neuroscience*

*Frontiers in Behavioral Neuroscience*

*Hormones and Behavior*

*International Journal of Neuropsychopharmacology*

*Journal of Neuroscience*

*Journal of Neuroscience, Psychology, and Economics*

*Journal of Personality and Social Psychology: Personality Processes and Individual Differences*

*PLOS ONE*

*Psychoneuroendocrinology*

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## **Community Services**

10/2011 – 10/2013

Math Tutor and Teacher for Children and Young Adults at the Non-profit Association "Vision-Lernpunkte e.V."

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## **Other Interests**

Music, Piano, Guitar, Football, Literature, Current Politics

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## **References**

### **Professor Martin Kocher**

Ludwig-Maximilians-University Munich  
Department of Economics  
Geschwister-Scholl-Platz 1  
D-80539 Munich, Germany

### **Professor Christian C. Ruff**

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

### **Professor Samuel M. McClure**

Arizona State University  
Department of Psychology  
950 S. McAllister Ave.,  
Tempe, AZ 85287, USA