

# Ulf Toelch

## Curriculum Vitae

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### SCIENTIFIC POSITIONS AND DEGREES

- 2021 – now **Research Group Leader *Systemic Perspectives in Translational Biomedicine***, BIH QUEST Center for Responsible Research, Berlin Institute of Health at Charité, Germany.
- 2017 – now **Project Leader *Education and Scientific Quality***, BIH QUEST Center for Responsible Research, Berlin Institute of Health at Charité, Germany.
- Description Development and teaching of reproducible methods in biomedical sciences. Development of strategies towards scientific rigour.
- 2021 **Lehrbefugnis *Experimental Neurology***, Charité - Universitätsmedizin, Berlin
- 2020 **Habilitation in Psychology**, Freie Universität Berlin, Germany.
- 2015 – 2017 **Researcher, *Biological Psychology and Cognitive Neurobiology***, Freie Universität Berlin, Germany.
- Description Neurobiological basis and computational models of social information use.
- 2011 – 2014 **Einstein Post-doctoral fellow**, Berlin School of Mind and Brain, Humboldt University, Berlin, Germany.
- Description Neurobiological basis and computational models of social information use.
- 2010 –2011 **Post-doctoral fellow**, *Cognitive Neurobiology*, Humboldt University, Berlin, Germany.
- Description Development of statistical methods for animal phenotyping
- 2006 – 2010 **Post-doctoral fellow**, *Department of Biology*, Utrecht University, The Netherlands.
- Description Social learning and innovation behaviour in human and non-human animals.
- 2006 **Software developer, project manager, and researcher**, Munich
- Description Development of Virtual Reality experimental set-up for rodents and humans. Exist-Seed program for university spin-off companies (founded by the Bundesministerium für Bildung und Forschung), Ludwig-Maximilians University, Munich
- 2006 **PhD in Biology**, *Department Biology II (Ludwig Maximilians University) and Max Planck Institute for Ornithology*, Munich and Seewiesen.
- Title *Bat Time Stories*
- Description Decision-making in temporal and spatially predictable environments in a tropical bat *Glossophaga soricina*
- 2002 **Diploma in Biology**, *Department Zoology*, Christian- Albrechts University, Kiel.

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### Awards and Distinctions

- 2017 Teaching Award in Psychology 2017; FU Berlin
- 2017 FU Berlin Central Teaching Award for *Digital Open Science Project*

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### Publications

H. Brinken, I. Kuchma, V. Kalaitzi, J. Davidson, N. Pontika, M. Cancellieri, A. Correia, J. Carvalho, R. Melero, D. Kastelic, F. Borba, K. Lenaki, U. Toelch, K. Zourou, P. Knoth, B. Schmidt, and

- E. Rodrigues. A Case Report: Building communities with training and resources for Open Science trainers. *LIBER Quarterly*, 29(1):1–36, Oct. 2019.
- N. I. Drude, L. Martinez Gamboa, M. Danziger, U. Dirnagl, and U. Toelch. Science Forum: Improving preclinical studies through replications. *eLife*, 10:e62101, Jan. 2021. Publisher: eLife Sciences Publications, Ltd.
- D. H. Kelm, J. Lenski, V. Kelm, U. Toelch, and F. Dziock. Seasonal Bat Activity in Relation to Distance to Hedgerows in an Agricultural Landscape in Central Europe and Implications for Wind Energy Development. *Acta Chiropterologica*, 16(1):65–73, June 2014.
- A. Pooresmaeili, T. H. B. FitzGerald, D. R. Bach, U. Toelch, F. Ostendorf, and R. J. Dolan. Cross-modal effects of value on perceptual acuity and stimulus encoding. *PNAS*, 111(42):15244–15249, Oct. 2014.
- M. Rollwage, F. Pannach, C. Stinson, U. Toelch, I. Kagan, and A. Pooresmaeili. Judgments of effort exerted by others are influenced by received rewards. *Sci Rep*, 10(1):1–14, Feb. 2020.
- A. Simons, N. Riedel, U. Toelch, B. Hendriks, S. Müller-Ohlaun, L. Liebenau, J. Ambrasat, U. Dirnagl, and M. Reinhart. Assessing the Organizational Climate for Translational Research with a New Survey Tool. *Science and Engineering Ethics*, 26(6):2893–2910, 2020.
- U. Toelch, D. R. Bach, and R. J. Dolan. The neural underpinnings of an optimal exploitation of social information under uncertainty. *Soc Cogn Affect Neurosci*, page nst173, Nov. 2013.
- U. Toelch, M. Bruce, M. Meeus, and S. Reader. Humans copy rapidly increasing choices in a multiarmed bandit problem. *Evolution and Human Behavior*, 31(5):326–333, 2010.
- U. Toelch, M. J. Bruce, M. T. H. Meeus, and S. M. Reader. Social performance cues induce behavioral flexibility in humans. *Front Psychology*, 2:160, 2011.
- U. Toelch, M. J. Bruce, L. Newson, P. J. Richerson, and S. M. Reader. Individual consistency and flexibility in human social information use. *Proc. R. Soc. B*, 281(1776):20132864, July 2014.
- U. Toelch and R. J. Dolan. Informational and Normative Influences in Conformity from a Neurocomputational Perspective. *Trends in Cognitive Sciences*, 19(10):579–589, Oct. 2015.
- U. Toelch, E. Jubera-Garcia, Z. Kurth-Nelson, and R. J. Dolan. Competition strength influences individual preferences in an auction game. *Cognition*, 133(2):480–487, Nov. 2014.
- U. Toelch and D. Ostwald. Digital open science—Teaching digital tools for reproducible and transparent research. *PLOS Biology*, 16(7):e2006022, July 2018.
- U. Toelch, F. Panizza, and H. R. Heekeren. Norm compliance affects perceptual decisions through modulation of a starting point bias. *Open Science*, 5(3):171268, Mar. 2018.
- U. Toelch, A. Pooresmaeili, and R. J. Dolan. Neural substrates of norm compliance in perceptual decisions. *Scientific Reports*, 8(1):3315, Feb. 2018.
- U. Toelch, K. Stich, C. Gass, and Y. Winter. Effect of local spatial cues in small-scale orientation of flower bats. *Animal Behaviour*, 75:913–920, Mar. 2008.
- U. Toelch, M. J. van Delft, M. J. Bruce, R. Donders, M. T. H. Meeus, and S. M. Reader. Decreased environmental variability induces a bias for social information use in humans. *Evol Hum Behav*, 30(1):32–40, 2009.
- U. Toelch and Y. Winter. Psychometric function for nectar volume perception of a flower-visiting bat. *Journal of Comparative Physiology a-Neuroethology Sensory Neural And*, 193(2):265–269, Feb. 2007.
- U. Toelch and Y. Winter. Interval timing behavior in Pallas's long-tongued bat (*Glossophaga soricina*). *Journal of Comparative Psychology*, 127(4):445–452, 2013.