# Tobias U Hauser

## List of Publications by Citations



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|---|---|---|---|
| 74 papers | 2,448 citations | 27 h-index | 48 g-index |
| 88 ext. papers | 3,482 ext. citations | 7.8 avg, IF | 5.22 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 74 | The feedback-related negativity (FRN) revisited: new insights into the localization, meaning and network organization. *NeuroImage*, **2014**, 84, 159-68 | 7.9 | 261 |
| 73 | Adolescence is associated with genomically patterned consolidation of the hubs of the human brain connectome. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 9105-10 | 11.5 | 255 |
| 72 | The PhysIO Toolbox for Modeling Physiological Noise in fMRI Data. *Journal of Neuroscience Methods*, **2017**, 276, 56-72 | 3 | 135 |
| 71 | Cortical Abnormalities Associated With Pediatric and Adult Obsessive-Compulsive Disorder: Findings From the ENIGMA Obsessive-Compulsive Disorder Working Group. *American Journal of Psychiatry*, **2018**, 175, 453-462 | 11.9 | 117 |
| 70 | Conflict monitoring and error processing: new insights from simultaneous EEG-fMRI. *NeuroImage*, **2015**, 105, 395-407 | 7.9 | 115 |
| 69 | Unexpected arousal modulates the influence of sensory noise on confidence. *ELife*, **2016**, 5, | 8.9 | 99 |
| 68 | Cognitive flexibility in adolescence: neural and behavioral mechanisms of reward prediction error processing in adaptive decision making during development. *NeuroImage*, **2015**, 104, 347-54 | 7.9 | 91 |
| 67 | Role of the medial prefrontal cortex in impaired decision making in juvenile attention-deficit/hyperactivity disorder. *JAMA Psychiatry*, **2014**, 71, 1165-73 | 14.5 | 88 |
| 66 | Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. *Brain Imaging and Behavior*, **2017**, 11, 1497-1514 | 4.1 | 87 |
| 65 | Computational Psychiatry of ADHD: Neural Gain Impairments across Marrian Levels of Analysis. *Trends in Neurosciences*, **2016**, 39, 63-73 | 13.3 | 64 |
| 64 | Separate mesocortical and mesolimbic pathways encode effort and reward learning signals. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7395-E7404 | 11.5 | 62 |
| 63 | Computational mechanisms of curiosity and goal-directed exploration. *ELife*, **2019**, 8, | 8.9 | 61 |
| 62 | Enhancing performance in numerical magnitude processing and mental arithmetic using transcranial Direct Current Stimulation (tDCS). *Frontiers in Human Neuroscience*, **2013**, 7, 244 | 3.3 | 55 |
| 61 | Conservative and disruptive modes of adolescent change in human brain functional connectivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3248-3253 | 11.5 | 52 |
| 60 | Neuroimaging of cognitive brain function in paediatric obsessive compulsive disorder: a review of literature and preliminary meta-analysis. *Journal of Neural Transmission*, **2012**, 119, 1425-48 | 4.3 | 52 |
| 59 | Compulsivity and impulsivity traits linked to attenuated developmental frontostriatal myelination trajectories. *Nature Neuroscience*, **2019**, 22, 992-999 | 25.5 | 51 |
| 58 | Improving the reliability of model-based decision-making estimates in the two-stage decision task with reaction-times and drift-diffusion modeling. *PLoS Computational Biology*, **2019**, 15, e1006803 | 5 | 49 |

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| 57 | Striatal structure and function predict individual biases in learning to avoid pain. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 4812-7 | 11.5 | 45 |
| 56 | Noradrenaline blockade specifically enhances metacognitive performance. *ELife*, **2017**, 6, | 8.9 | 44 |
| 55 | Metacognitive impairments extend perceptual decision making weaknesses in compulsivity. *Scientific Reports*, **2017**, 7, 6614 | 4.9 | 40 |
| 54 | Increased decision thresholds enhance information gathering performance in juvenile Obsessive-Compulsive Disorder (OCD). *PLoS Computational Biology*, **2017**, 13, e1005440 | 5 | 37 |
| 53 | Classifying adolescent attention-deficit/hyperactivity disorder (ADHD) based on functional and structural imaging. *European Child and Adolescent Psychiatry*, **2015**, 24, 1279-89 | 5.5 | 36 |
| 52 | Confidence drives a neural confirmation bias. *Nature Communications*, **2020**, 11, 2634 | 17.4 | 34 |
| 51 | Mapping Cortical and Subcortical Asymmetry in Obsessive-Compulsive Disorder: Findings From the ENIGMA Consortium. *Biological Psychiatry*, **2020**, 87, 1022-1034 | 7.9 | 34 |
| 50 | Increased decision thresholds trigger extended information gathering across the compulsivity spectrum. *Translational Psychiatry*, **2017**, 7, 1296 | 8.6 | 29 |
| 49 | Temporally Dissociable Contributions of Human Medial Prefrontal Subregions to Reward-Guided Learning. *Journal of Neuroscience*, **2015**, 35, 11209-20 | 6.6 | 28 |
| 48 | Computation in Psychotherapy, or How Computational Psychiatry Can Aid Learning-Based Psychological Therapies. *Computational Psychiatry*, **2018**, 2, 50-73 | 3.8 | 27 |
| 47 | Imaging genetics in obsessive-compulsive disorder: linking genetic variations to alterations in neuroimaging. *Progress in Neurobiology*, **2014**, 121, 114-24 | 10.9 | 26 |
| 46 | Transcranial direct current stimulation of the posterior parietal cortex modulates arithmetic learning. *European Journal of Neuroscience*, **2015**, 42, 1667-74 | 3.5 | 24 |
| 45 | Credit assignment to state-independent task representations and its relationship with model-based decision making. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15871-15876 | 11.5 | 23 |
| 44 | Neurocognitive Effects of Transcranial Direct Current Stimulation in Arithmetic Learning and Performance: A Simultaneous tDCS-fMRI Study. *Brain Stimulation*, **2016**, 9, 850-858 | 5.1 | 22 |
| 43 | Fractionation of impulsive and compulsive trans-diagnostic phenotypes and their longitudinal associations. *Australian and New Zealand Journal of Psychiatry*, **2019**, 53, 896-907 | 2.6 | 21 |
| 42 | The value of what's to come: Neural mechanisms coupling prediction error and the utility of anticipation. *Science Advances*, **2020**, 6, eaba3828 | 14.3 | 20 |
| 41 | When problem size matters: differential effects of brain stimulation on arithmetic problem solving and neural oscillations. *PLoS ONE*, **2015**, 10, e0120665 | 3.7 | 20 |
| 40 | Annual Research Review: Developmental computational psychiatry. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, **2019**, 60, 412-426 | 7.9 | 19 |

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| 39 | Neural Mechanisms of Harm-Avoidance Learning: A Model for Obsessive-Compulsive Disorder?. *JAMA Psychiatry*, **2016**, 73, 1196-1197 | 14.5 | 18 |
| 38 | Beta-Blocker Propranolol Modulates Decision Urgency During Sequential Information Gathering. *Journal of Neuroscience*, **2018**, 38, 7170-7178 | 6.6 | 18 |
| 37 | Distinct Processing of Aversive Experience in Amygdala Subregions. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 291-300 | 3.4 | 18 |
| 36 | Endogenous fluctuations in the dopaminergic midbrain drive behavioral choice variability. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18732-18737 | 11.5 | 16 |
| 35 | Childhood socio-economic disadvantage predicts reduced myelin growth across adolescence and young adulthood. *Human Brain Mapping*, **2020**, 41, 3392-3402 | 5.9 | 16 |
| 34 | Multiple Holdouts With Stability: Improving the Generalizability of Machine Learning Analyses of Brain-Behavior Relationships. *Biological Psychiatry*, **2020**, 87, 368-376 | 7.9 | 11 |
| 33 | Structural neuroimaging biomarkers for obsessive-compulsive disorder in the ENIGMA-OCD consortium: medication matters. *Translational Psychiatry*, **2020**, 10, 342 | 8.6 | 11 |
| 32 | White matter microstructure and its relation to clinical features of obsessive-compulsive disorder: findings from the ENIGMA OCD Working Group. *Translational Psychiatry*, **2021**, 11, 173 | 8.6 | 11 |
| 31 | Distinct Roles of Dopamine and Noradrenaline in Incidental Memory. *Journal of Neuroscience*, **2019**, 39, 7715-7721 | 6.6 | 9 |
| 30 | Compulsivity is linked to reduced adolescent development of goal-directed control and frontostriatal functional connectivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 25911-25922 | 11.5 | 9 |
| 29 | Obsessive-compulsive symptoms and information seeking during the Covid-19 pandemic. *Translational Psychiatry*, **2021**, 11, 309 | 8.6 | 8 |
| 28 | I know better! Emerging metacognition allows adolescents to ignore false advice. *Developmental Science*, **2021**, 24, e13101 | 4.5 | 7 |
| 27 | The role of dopamine in dynamic effort-reward integration. *Neuropsychopharmacology*, **2020**, 45, 1448-1453 | 8.7 | 7 |
| 26 | Human complex exploration strategies are enriched by noradrenaline-modulated heuristics. *ELife*, **2021**, 10, | 8.9 | 6 |
| 25 | Beyond a Cognitive Dichotomy: Can Multiple Decision Systems Prove Useful to Distinguish Compulsive and Impulsive Symptom Dimensions?. *Biological Psychiatry*, **2020**, 88, e49-e51 | 7.9 | 5 |
| 24 | Wie biologisch sind Zwangsstörungen?. *Kindheit Und Entwicklung (discontinued)*, **2014**, 23, 75-85 | 0.3 | 5 |
| 23 | White Matter Microstructure and its Relation to Clinical Features of Obsessive-Compulsive Disorder: Findings from the ENIGMA OCD Working Group | | 5 |
| 22 | Author response: Unexpected arousal modulates the influence of sensory noise on confidence **2016**, | | 4 |

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| 21 | Compulsivity and impulsivity are linked to distinct aberrant developmental trajectories of fronto-striatal myelination | | 4 |
| 20 | The value of what□s to come: neural mechanisms coupling prediction error and reward anticipation | | 4 |
| 19 | Decision-making ability, psychopathology, and brain connectivity. *Neuron*, **2021**, 109, 2025-2040.e7 | 13.9 | 4 |
| 18 | Computational and Behavioral Markers of Model-based Decision Making in Childhood | | 3 |
| 17 | Towards a computational psychiatry of juvenile obsessive-compulsive disorder. *Neuroscience and Biobehavioral Reviews*, **2020**, 118, 631-642 | 9 | 3 |
| 16 | Social training reconfigures prediction errors to shape Self-Other boundaries. *Nature Communications*, **2020**, 11, 3030 | 17.4 | 2 |
| 15 | I know better! Emerging metacognition allows adolescents to ignore false advice | | 2 |
| 14 | Author response: Computational mechanisms of curiosity and goal-directed exploration **2019**, | | 2 |
| 13 | A Selective Increase in OC Symptoms is Driving Information Seeking and Guideline Adherence During the Covid-19 Pandemic | | 2 |
| 12 | Noradrenaline modulates decision urgency during sequential information gathering | | 2 |
| 11 | Computational mechanisms of curiosity and goal-directed exploration | | 2 |
| 10 | Childhood socio-economic disadvantage predicts reduced myelin growth across adolescence and young adulthood | | 2 |
| 9 | Children perform extensive information gathering when it is not costly. *Cognition*, **2021**, 208, 104535 | 3.5 | 2 |
| 8 | Reliability of web-based affective auditory stimulus presentation. *Behavior Research Methods*, **2021**, 1 | 6.1 | 2 |
| 7 | A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES checklist): a consensus study and statement.. *Nature Protocols*, **2022**, | 18.8 | 1 |
| 6 | Metacognitive impairments extend perceptual decision making weaknesses in compulsivity | | 1 |
| 5 | Learning in Development and Education □A Mechanistic Understanding Is Needed. *Zeitschrift Fur Psychologie / Journal of Psychology*, **2016**, 224, 307-308 | 1.8 | 1 |
| 4 | Preference uncertainty accounts for developmental effects on susceptibility to peer influence in adolescence. *Nature Communications*, **2021**, 12, 3823 | 17.4 | 1 |

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| 3 | Bringing Development Into the Equation. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2020**, 5, 935-936 | 3.4 |
| 2 | Do propranolol and amisulpride modulate confidence in risk-taking?. *Wellcome Open Research*,7, 23 | 4.8 |
| 1 | Assigning the right credit to the wrong action: compulsivity in the general population is associated with augmented outcome-irrelevant value-based learning. *Translational Psychiatry*, **2021**, 11, 564 | 8.6 |