

# Ueli Rutishauser

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

4,159  
citations

172457

29  
h-index

133252

59  
g-index

84  
all docs

84  
docs citations

84  
times ranked

4110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. <i>Neuron</i> , 2022, 110, 188-194.	8.1	29
2	Neurons detect cognitive boundaries to structure episodic memories in humans. <i>Nature Neuroscience</i> , 2022, 25, 358-368.	14.8	51
3	Properties and hemispheric differences of theta oscillations in the human hippocampus. <i>Hippocampus</i> , 2022, 32, 335-341.	1.9	6
4	Saccade-related neural communication in the human medial temporal lobe is modulated by the social relevance of stimuli. <i>Science Advances</i> , 2022, 8, eabl6037.	10.3	14
5	The geometry of domain-general performance monitoring in the human medial frontal cortex. <i>Science</i> , 2022, 376, eabm9922.	12.6	41
6	The Architecture of Human Memory: Insights from Human Single-Neuron Recordings. <i>Journal of Neuroscience</i> , 2021, 41, 883-890.	3.6	35
7	Distinct roles of dorsal and ventral subthalamic neurons in action selection and cancellation. <i>Neuron</i> , 2021, 109, 869-881.e6.	8.1	51
8	Electrocorticography During Deep Brain Stimulation Surgery: Safety Experience From 4 Centers Within the National Institute of Neurological Disorders and Stroke Research Opportunities in Human Consortium. <i>Neurosurgery</i> , 2021, 88, E420-E426.	1.1	18
9	Single-neuron correlate of epilepsy-related cognitive deficits in visual recognition memory in right mesial temporal lobe. <i>Epilepsia</i> , 2021, 62, 2082-2093.	5.1	4
10	The hierarchical construction of value. <i>Current Opinion in Behavioral Sciences</i> , 2021, 41, 71-77.	3.9	15
11	Metamemory: Rats know the strength of their memory. <i>Current Biology</i> , 2021, 31, R1432-R1434.	3.9	1
12	Between persistently active and activity-silent frameworks: novel vistas on the cellular basis of working memory. <i>Annals of the New York Academy of Sciences</i> , 2020, 1464, 64-75.	3.8	60
13	Extent of Single-Neuron Activity Modulation by Hippocampal Interictal Discharges Predicts Declarative Memory Disruption in Humans. <i>Journal of Neuroscience</i> , 2020, 40, 682-693.	3.6	30
14	Value-Related Neuronal Responses in the Human Amygdala during Observational Learning. <i>Journal of Neuroscience</i> , 2020, 40, 4761-4772.	3.6	21
15	Cellular Classes in the Human Brain Revealed In Vivo by Heartbeat-Related Modulation of the Extracellular Action Potential Waveform. <i>Cell Reports</i> , 2020, 30, 3536-3551.e6.	6.4	38
16	A NWB-based dataset and processing pipeline of human single-neuron activity during a declarative memory task. <i>Scientific Data</i> , 2020, 7, 78.	5.3	11
17	Flexible recruitment of memory-based choice representations by the human medial frontal cortex. <i>Science</i> , 2020, 368, .	12.6	82
18	Activated Bone Marrow-Derived Macrophages Eradicate Alzheimer's-Related A $\beta$ 242 Oligomers and Protect Synapses. <i>Frontiers in Immunology</i> , 2020, 11, 49.	4.8	32

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19	Combined Phase-Rate Coding by Persistently Active Neurons as a Mechanism for Maintaining Multiple Items in Working Memory in Humans. <i>Neuron</i> , 2020, 106, 256-264.e3.	8.1	47
20	Abstract goal representation in visual search by neurons in the human pre-supplementary motor area. <i>Brain</i> , 2019, 142, 3530-3549.	7.6	17
21	Working Memory Load-related Theta Power Decreases in Dorsolateral Prefrontal Cortex Predict Individual Differences in Performance. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 1290-1307.	2.3	55
22	Testing Models of Human Declarative Memory at the Single-Neuron Level. <i>Trends in Cognitive Sciences</i> , 2019, 23, 510-524.	7.8	24
23	Simultaneous Eye Tracking and Single-Neuron Recordings in Human Epilepsy Patients. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	5
24	Single-Neuron Correlates of Error Monitoring and Post-Error Adjustments in Human Medial Frontal Cortex. <i>Neuron</i> , 2019, 101, 165-177.e5.	8.1	84
25	Novelty-Sensitive Dopaminergic Neurons in the Human Substantia Nigra Predict Success of Declarative Memory Formation. <i>Current Biology</i> , 2018, 28, 1333-1343.e4.	3.9	65
26	Human Episodic Memory Retrieval Is Accompanied by a Neural Contiguity Effect. <i>Journal of Neuroscience</i> , 2018, 38, 4200-4211.	3.6	67
27	Dataset of human medial temporal lobe single neuron activity during declarative memory encoding and recognition. <i>Scientific Data</i> , 2018, 5, 180010.	5.3	32
28	Surgical and Electrophysiological Techniques for Single-Neuron Recordings in Human Epilepsy Patients. <i>NeuroMethods</i> , 2018, , 267-293.	0.3	17
29	Solving Constraint-Satisfaction Problems with Distributed Neocortical-Like Neuronal Networks. <i>Neural Computation</i> , 2018, 30, 1359-1393.	2.2	12
30	Single-Neuron Correlates of Awareness during Attentional Blinks. <i>Trends in Cognitive Sciences</i> , 2018, 22, 5-7.	7.8	3
31	Single-Neuron Representation of Memory Strength and Recognition Confidence in Left Human Posterior Parietal Cortex. <i>Neuron</i> , 2018, 97, 209-220.e3.	8.1	70
32	Safety and Utility of Hybrid Depth Electrodes for Seizure Localization and Single-Unit Neuronal Recording. <i>Stereotactic and Functional Neurosurgery</i> , 2018, 96, 311-319.	1.5	25
33	Encoding of Target Detection during Visual Search by Single Neurons in the Human Brain. <i>Current Biology</i> , 2018, 28, 2058-2069.e4.	3.9	28
34	Fixations Gate Species-Specific Responses to Free Viewing of Faces in the Human and Macaque Amygdala. <i>Cell Reports</i> , 2017, 18, 878-891.	6.4	64
35	Persistently active neurons in human medial frontal and medial temporal lobe support working memory. <i>Nature Neuroscience</i> , 2017, 20, 590-601.	14.8	185
36	Automatic detection of periods of slow wave sleep based on intracranial depth electrode recordings. <i>Journal of Neuroscience Methods</i> , 2017, 282, 1-8.	2.5	18

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37	The human amygdala parametrically encodes the intensity of specific facial emotions and their categorical ambiguity. <i>Nature Communications</i> , 2017, 8, 14821.	12.8	106
38	Insights on Vision Derived from Studying Human Single Neurons. <i>Cognitive Science and Technology</i> , 2017, , 25-39.	0.4	1
39	Subthalamic Nuclei Deep Brain Stimulation Improves Color Vision in Patients with Parkinson's Disease. <i>Brain Stimulation</i> , 2016, 9, 948-949.	1.6	2
40	Decision Making: A Role for the Amygdala in Translating Goals into Choices. <i>Current Biology</i> , 2016, 26, R1177-R1179.	3.9	1
41	Representation of retrieval confidence by single neurons in the human medial temporal lobe. <i>Nature Neuroscience</i> , 2015, 18, 1041-1050.	14.8	118
42	Computation in Dynamically Bounded Asymmetric Systems. <i>PLoS Computational Biology</i> , 2015, 11, e1004039.	3.2	13
43	Making Decisions Based on Autobiographical Memories. <i>Neuron</i> , 2015, 86, 350-352.	8.1	1
44	The primate amygdala in social perception – insights from electrophysiological recordings and stimulation. <i>Trends in Neurosciences</i> , 2015, 38, 295-306.	8.6	108
45	Competition with and without priority control: linking rivalry to attention through winner-take-all networks with memory. <i>Annals of the New York Academy of Sciences</i> , 2015, 1339, 138-153.	3.8	2
46	Learning and stabilization of winner-take-all dynamics through interacting excitatory and inhibitory plasticity. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 68.	2.1	35
47	Neuroscience: Transforming Visual Percepts into Memories. <i>Current Biology</i> , 2014, 24, R125-R127.	3.9	0
48	Neurons in the human amygdala selective for perceived emotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3110-9.	7.1	109
49	Single-Neuron Correlates of Atypical Face Processing in Autism. <i>Neuron</i> , 2013, 80, 887-899.	8.1	74
50	A method for closed-loop presentation of sensory stimuli conditional on the internal brain-state of awake animals. <i>Journal of Neuroscience Methods</i> , 2013, 215, 139-155.	2.5	25
51	Pupil size signals novelty and predicts later retrieval success for declarative memories of natural scenes. <i>Journal of Vision</i> , 2013, 13, 11-11.	0.3	84
52	Synthesizing cognition in neuromorphic electronic systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3468-76.	7.1	119
53	Predeliberation activity in prefrontal cortex and striatum and the prediction of subsequent value judgment. <i>Frontiers in Neuroscience</i> , 2013, 7, 225.	2.8	17
54	Competition Through Selective Inhibitory Synchrony. <i>Neural Computation</i> , 2012, 24, 2033-2052.	2.2	16

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55	Group sparse coding with a collection of winner-take-all networks. <i>BMC Neuroscience</i> , 2012, 13, .	1.9	0
56	Collective Stability of Networks of Winner-Take-All Circuits. <i>Neural Computation</i> , 2011, 23, 735-773.	2.2	51
57	Single-Unit Responses Selective for Whole Faces in the Human Amygdala. <i>Current Biology</i> , 2011, 21, 1654-1660.	3.9	96
58	Human memory strength is predicted by theta-frequency phase-locking of single neurons. <i>Nature</i> , 2010, 464, 903-907.	27.8	537
59	Time course of target recognition in visual search. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 31.	2.0	17
60	State-Dependent Computation Using Coupled Recurrent Networks. <i>Neural Computation</i> , 2009, 21, 478-509.	2.2	71
61	Task-demands can immediately reverse the effects of sensory-driven saliency in complex visual stimuli. <i>Journal of Vision</i> , 2008, 8, 2.	0.3	222
62	Activity of human hippocampal and amygdala neurons during retrieval of declarative memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 329-334.	7.1	90
63	Probabilistic modeling of eye movement data during conjunction search via feature-based attention. <i>Journal of Vision</i> , 2007, 7, 5.	0.3	75
64	Single-Trial Learning of Novel Stimuli by Individual Neurons of the Human Hippocampus-Amygdala Complex. <i>Neuron</i> , 2006, 49, 805-813.	8.1	254
65	The relation of phase noise and luminance contrast to overt attention in complex visual stimuli. <i>Journal of Vision</i> , 2006, 6, 1-1.	0.3	35
66	Online detection and sorting of extracellularly recorded action potentials in human medial temporal lobe recordings, in vivo. <i>Journal of Neuroscience Methods</i> , 2006, 154, 204-224.	2.5	266
67	Selective visual attention enables learning and recognition of multiple objects in cluttered scenes. <i>Computer Vision and Image Understanding</i> , 2005, 100, 41-63.	4.7	184
68	Design for a Brain Revisited: The Neuromorphic Design and Functionality of the Interactive Space 'Ada'. <i>Reviews in the Neurosciences</i> , 2003, 14, 145-80.	2.9	19