

Joshua I Gold

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

11,412
citations

136740

32
h-index

118652

62
g-index

89
all docs

89
docs citations

89
times ranked

7745
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Ethical Issues in Intraoperative Neuroscience Research: Assessing Subjects'™ Recall of Informed Consent and Motivations for Participation. <i>AJOB Empirical Bioethics</i> , 2022, 13, 57-66. | 0.8 | 11 |
| 2 | Context-dependent relationships between locus coeruleus firing patterns and coordinated neural activity in the anterior cingulate cortex. <i>ELife</i> , 2022, 11, . | 2.8 | 24 |
| 3 | Human inference reflects a normative balance of complexity and accuracy. <i>Nature Human Behaviour</i> , 2022, 6, 1153-1168. | 6.2 | 7 |
| 4 | Embo: a Python package for empirical data analysis using the Information Bottleneck. <i>Journal of Open Research Software</i> , 2021, 9, 10. | 2.7 | 2 |
| 5 | Theta Synchrony Is Increased near Neural Populations That Are Active When Initiating Instructed Movement. <i>ENeuro</i> , 2021, 8, ENEURO.0252-20.2020. | 0.9 | 7 |
| 6 | Functional brain network reconfiguration during learning in a dynamic environment. <i>Nature Communications</i> , 2020, 11, 1682. | 5.8 | 25 |
| 7 | Pupil Size as a Window on Neural Substrates of Cognition. <i>Trends in Cognitive Sciences</i> , 2020, 24, 466-480. | 4.0 | 304 |
| 8 | The caudate nucleus contributes causally to decisions that balance reward and uncertain visual information. <i>ELife</i> , 2020, 9, . | 2.8 | 41 |
| 9 | Pupil diameter encodes the idiosyncratic, cognitive complexity of belief updating. <i>ELife</i> , 2020, 9, . | 2.8 | 37 |
| 10 | Neural encoding of task-dependent errors during adaptive learning. <i>ELife</i> , 2020, 9, . | 2.8 | 5 |
| 11 | Frontal eye field and caudate neurons make different contributions to reward-biased perceptual decisions. <i>ELife</i> , 2020, 9, . | 2.8 | 12 |
| 12 | The human as delta-rule learner.. <i>Decision</i> , 2020, 7, 55-66. | 0.4 | 14 |
| 13 | What is optimal in optimal inference?. <i>Current Opinion in Behavioral Sciences</i> , 2019, 29, 117-126. | 2.0 | 9 |
| 14 | Individual Neurons in the Cingulate Cortex Encode Action Monitoring, Not Selection, during Adaptive Decision-Making. <i>Journal of Neuroscience</i> , 2019, 39, 6668-6683. | 1.7 | 23 |
| 15 | Post-decision processing in primate prefrontal cortex influences subsequent choices on an auditory decision-making task. <i>ELife</i> , 2019, 8, . | 2.8 | 32 |
| 16 | A bias-“variance trade-off governs individual differences in on-line learning in an unpredictable environment. <i>Nature Human Behaviour</i> , 2018, 2, 213-224. | 6.2 | 61 |
| 17 | On the nature and use of models in network neuroscience. <i>Nature Reviews Neuroscience</i> , 2018, 19, 566-578. | 4.9 | 277 |
| 18 | Ongoing, rational calibration of reward-driven perceptual biases. <i>ELife</i> , 2018, 7, . | 2.8 | 41 |

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|----|--|-----|-----------|
| 19 | Arousal-related adjustments of perceptual biases optimize perception in dynamic environments. <i>Nature Human Behaviour</i> , 2017, 1, . | 6.2 | 67 |
| 20 | Coupled Decision Processes Update and Maintain Saccadic Priors in a Dynamic Environment. <i>Journal of Neuroscience</i> , 2017, 37, 3632-3645. | 1.7 | 38 |
| 21 | Visual Decision-Making in an Uncertain and Dynamic World. <i>Annual Review of Vision Science</i> , 2017, 3, 227-250. | 2.3 | 59 |
| 22 | Positive affect, surprise, and fatigue are correlates of network flexibility. <i>Scientific Reports</i> , 2017, 7, 520. | 1.6 | 140 |
| 23 | Age differences in learning emerge from an insufficient representation of uncertainty in older adults. <i>Nature Communications</i> , 2016, 7, 11609. | 5.8 | 70 |
| 24 | Relationships between Pupil Diameter and Neuronal Activity in the Locus Coeruleus, Colliculi, and Cingulate Cortex. <i>Neuron</i> , 2016, 89, 221-234. | 3.8 | 1,021 |
| 25 | Causal contribution of primate auditory cortex to auditory perceptual decision-making. <i>Nature Neuroscience</i> , 2016, 19, 135-142. | 7.1 | 97 |
| 26 | Comment on "Single-trial spike trains in parietal cortex reveal discrete steps during decision-making". <i>Science</i> , 2016, 351, 1406-1406. | 6.0 | 26 |
| 27 | Temporal trade-offs in psychophysics. <i>Current Opinion in Neurobiology</i> , 2016, 37, 121-125. | 2.0 | 16 |
| 28 | Temporal Integration of Auditory Information Is Invariant to Temporal Grouping Cues. <i>ENeuro</i> , 2015, 2, ENEURO.0077-14.2015. | 0.9 | 12 |
| 29 | Normative evidence accumulation in unpredictable environments. <i>ELife</i> , 2015, 4, . | 2.8 | 147 |
| 30 | Functionally Dissociable Influences on Learning Rate in a Dynamic Environment. <i>Neuron</i> , 2014, 84, 870-881. | 3.8 | 216 |
| 31 | Phasic Activation of Individual Neurons in the Locus Coeruleus/Subcoeruleus Complex of Monkeys Reflects Rewarded Decisions to Go But Not Stop. <i>Journal of Neuroscience</i> , 2014, 34, 13656-13669. | 1.7 | 74 |
| 32 | Neural Mechanisms for Perceptual Decision Making. , 2014, , 355-372. | | 8 |
| 33 | The Basal Ganglia's Contributions to Perceptual Decision Making. <i>Neuron</i> , 2013, 79, 640-649. | 3.8 | 149 |
| 34 | How mechanisms of perceptual decision-making affect the psychometric function. <i>Progress in Neurobiology</i> , 2013, 103, 98-114. | 2.8 | 85 |
| 35 | Biased Associative Representations in Parietal Cortex. <i>Neuron</i> , 2013, 77, 180-191. | 3.8 | 43 |
| 36 | A Healthy Fear of the Unknown: Perspectives on the Interpretation of Parameter Fits from Computational Models in Neuroscience. <i>PLoS Computational Biology</i> , 2013, 9, e1003015. | 1.5 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A Mixture of Delta-Rules Approximation to Bayesian Inference in Change-Point Problems. PLoS Computational Biology, 2013, 9, e1003150. | 1.5 | 90 |
| 38 | Neural Correlates of Perceptual Decision Making before, during, and after Decision Commitment in Monkey Frontal Eye Field. Cerebral Cortex, 2012, 22, 1052-1067. | 1.6 | 213 |
| 39 | Separate, Causal Roles of the Caudate in Saccadic Choice and Execution in a Perceptual Decision Task. Neuron, 2012, 75, 865-874. | 3.8 | 106 |
| 40 | Rational regulation of learning dynamics by pupil-linked arousal systems. Nature Neuroscience, 2012, 15, 1040-1046. | 7.1 | 570 |
| 41 | Using Our Brains to Develop Better Policy. Risk Analysis, 2012, 32, 374-380. | 1.5 | 26 |
| 42 | Distinct Representations of a Perceptual Decision and the Associated Oculomotor Plan in the Monkey Lateral Intraparietal Area. Journal of Neuroscience, 2011, 31, 913-921. | 1.7 | 159 |
| 43 | Perceptual learning. Current Biology, 2010, 20, R46-R48. | 1.8 | 56 |
| 44 | An Approximately Bayesian Delta-Rule Model Explains the Dynamics of Belief Updating in a Changing Environment. Journal of Neuroscience, 2010, 30, 12366-12378. | 1.7 | 381 |
| 45 | Caudate Encodes Multiple Computations for Perceptual Decisions. Journal of Neuroscience, 2010, 30, 15747-15759. | 1.7 | 263 |
| 46 | Relationships Between the Threshold and Slope of Psychometric and Neurometric Functions During Perceptual Learning: Implications for Neuronal Pooling. Journal of Neurophysiology, 2010, 103, 140-154. | 0.9 | 27 |
| 47 | Bayesian Online Learning of the Hazard Rate in Change-Point Problems. Neural Computation, 2010, 22, 2452-2476. | 1.3 | 120 |
| 48 | Shared Mechanisms of Perceptual Learning and Decision Making. Topics in Cognitive Science, 2010, 2, 226-238. | 1.1 | 28 |
| 49 | Correlates of Perceptual Learning in an Oculomotor Decision Variable. Journal of Neuroscience, 2009, 29, 2136-2150. | 1.7 | 19 |
| 50 | Reinforcement learning can account for associative and perceptual learning on a visual-decision task. Nature Neuroscience, 2009, 12, 655-663. | 7.1 | 245 |
| 51 | A method for localizing microelectrode trajectories in the macaque brain using MRI. Journal of Neuroscience Methods, 2009, 176, 104-111. | 1.3 | 25 |
| 52 | Neural correlates of perceptual learning in a sensory-motor, but not a sensory, cortical area. Nature Neuroscience, 2008, 11, 505-513. | 7.1 | 436 |
| 53 | The Relative Influences of Priors and Sensory Evidence on an Oculomotor Decision Variable During Perceptual Learning. Journal of Neurophysiology, 2008, 100, 2653-2668. | 0.9 | 103 |
| 54 | The Neural Basis of Decision Making. Annual Review of Neuroscience, 2007, 30, 535-574. | 5.0 | 3,157 |

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|----|--|------|-----------|
| 55 | Through the Looking Glass. Focus on "Representation of an Abstract Perceptual Decision in Macaque Superior Colliculus". Journal of Neurophysiology, 2004, 91, 1936-1937. | 0.9 | 1 |
| 56 | Context Matters. Neuron, 2004, 41, 177-178. | 3.8 | 0 |
| 57 | Linking reward expectation to behavior in the basal ganglia. Trends in Neurosciences, 2003, 26, 12-14. | 4.2 | 35 |
| 58 | The Influence of Behavioral Context on the Representation of a Perceptual Decision in Developing Oculomotor Commands. Journal of Neuroscience, 2003, 23, 632-651. | 1.7 | 249 |
| 59 | Good Vibrations. Neuron, 2002, 33, 842-844. | 3.8 | 1 |
| 60 | Banburismus and the Brain. Neuron, 2002, 36, 299-308. | 3.8 | 494 |
| 61 | Neural computations that underlie decisions about sensory stimuli. Trends in Cognitive Sciences, 2001, 5, 10-16. | 4.0 | 808 |
| 62 | Representation of a perceptual decision in developing oculomotor commands. Nature, 2000, 404, 390-394. | 13.7 | 539 |
| 63 | Multiple Roles of Experience in Decoding the Neural Representation of Sensory Stimuli. Novartis Foundation Symposium, 0, , 92-107. | 1.2 | 2 |