# Jean Daunizeau

List of Publications by Year
in descending order

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|---|---|---|---|
| 110 papers | 13,908 citations | 34016<br>52 h-index | 46693<br>89 g-index |
| 122 all docs | 122 docs citations | 122 times ranked | 9628 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | The Bayesian Brain: An Evolutionary Approach to Cognition. , 2022, , 202-221. | | 0 |
| 2 | An Overcomplete Approach to Fitting Drift-Diffusion Decision Models to Trial-By-Trial Data. Frontiers in Artificial Intelligence, 2021, 4, 531316. | 2.0 | 5 |
| 3 | Bridging across functional models: The OFC as a value-making neural network.. Behavioral Neuroscience, 2021, 135, 277-290. | 0.6 | 10 |
| 4 | Trading mental effort for confidence in the metacognitive control of value-based decision-making. ELife, 2021, 10, . | 2.8 | 28 |
| 5 | Dissecting functional contributions of the social brain to strategic behavior. Neuron, 2021, 109, 3323-3337.e5. | 3.8 | 20 |
| 6 | Choosing what we like vs liking what we choose: How choice-induced preference change might actually be instrumental to decision-making. PLoS ONE, 2020, 15, e0231081. | 1.1 | 29 |
| 7 | Social behavioural adaptation in Autism. PLoS Computational Biology, 2020, 16, e1007700. | 1.5 | 15 |
| 8 | Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89. | 0.9 | 32 |
| 9 | Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89. | 0.9 | 41 |
| 10 | Second waves, social distancing, and the spread of COVID-19 across America. Wellcome Open Research, 2020, 5, 103. | 0.9 | 40 |
| 11 | Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204. | 0.9 | 6 |
| 12 | Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204. | 0.9 | 7 |
| 13 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |
| 14 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |
| 15 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |
| 16 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |
| 17 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |
| 18 | Social behavioural adaptation in Autism. , 2020, 16, e1007700. | | 0 |

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|---|---------|-----|-----------|
| 19 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 20 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 21 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 22 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 23 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 24 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 25 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 26 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 27 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 28 | Title is missing!. , 2020, 15, e0231081. | | 0 |
| 29 | Assessing inter-individual differences with task-related functional neuroimaging. Nature Human Behaviour, 2019, 3, 897-905. | 6.2 | 62 |
| 30 | Sour grapes and sweet victories: How actions shape preferences. PLoS Computational Biology, 2019, 15, e1006499. | 1.5 | 14 |
| 31 | Why not try harder? Computational approach to motivation deficits in neuro-psychiatric diseases. Brain, 2018, 141, 629-650. | 3.7 | 127 |
| 32 | A plea for â€œvariational neuroethologyâ€• Physics of Life Reviews, 2018, 24, 56-58. | 1.5 | 3 |
| 33 | Computational neuroimaging strategies for single patient predictions. NeuroImage, 2017, 145, 180-199. | 2.1 | 144 |
| 34 | Does the way we read others' mind change over the lifespan? Insights from a massive web poll of cognitive skills from childhood to late adulthood. Cortex, 2017, 86, 205-215. | 1.1 | 27 |
| 35 | Reading wild minds: A computational assay of Theory of Mind sophistication across seven primate species. PLoS Computational Biology, 2017, 13, e1005833. | 1.5 | 45 |
| 36 | Learning about and from others' prudence, impatience or laziness: The computational bases of attitude alignment. PLoS Computational Biology, 2017, 13, e1005422. | 1.5 | 15 |

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|---|---------|-----|-----------|
| 37 | Choose, rate or squeeze: Comparison of economic value functions elicited by different behavioral tasks. PLoS Computational Biology, 2017, 13, e1005848. | 1.5 | 18 |
| 38 | Computational Dissection of Dopamine Motor and Motivational Functions in Humans. Journal of Neuroscience, 2016, 36, 6623-6633. | 1.7 | 109 |
| 39 | Dynamic causal modelling of brain–behaviour relationships. NeuroImage, 2015, 117, 202-221. | 2.1 | 28 |
| 40 | Automatic integration of confidence in the brain valuation signal. Nature Neuroscience, 2015, 18, 1159-1167. | 7.1 | 223 |
| 41 | Theory of Mind: Did Evolution Fool Us?. PLoS ONE, 2014, 9, e87619. | 1.1 | 59 |
| 42 | Uncertainty in perception and the Hierarchical Gaussian Filter. Frontiers in Human Neuroscience, 2014, 8, 825. | 1.0 | 286 |
| 43 | Spatial Attention, Precision, and Bayesian Inference: A Study of Saccadic Response Speed. Cerebral Cortex, 2014, 24, 1436-1450. | 1.6 | 151 |
| 44 | Inferring on the Intentions of Others by Hierarchical Bayesian Learning. PLoS Computational Biology, 2014, 10, e1003810. | 1.5 | 134 |
| 45 | The Social Bayesian Brain: Does Mentalizing Make a Difference When We Learn?. PLoS Computational Biology, 2014, 10, e1003992. | 1.5 | 58 |
| 46 | VBA: A Probabilistic Treatment of Nonlinear Models for Neurobiological and Behavioural Data. PLoS Computational Biology, 2014, 10, e1003441. | 1.5 | 278 |
| 47 | Toward a New Application of Real-Time Electrophysiology: Online Optimization of Cognitive Neurosciences Hypothesis Testing. Brain Sciences, 2014, 4, 49-72. | 1.1 | 14 |
| 48 | Bayesian model selection for group studies — Revisited. NeuroImage, 2014, 84, 971-985. | 2.1 | 490 |
| 49 | Model selection and gobbledygook: Response to Lohmann et al.. NeuroImage, 2013, 75, 275-278. | 2.1 | 25 |
| 50 | Variational Bayesian mixed-effects inference for classification studies. NeuroImage, 2013, 76, 345-361. | 2.1 | 30 |
| 51 | Is non-recognition of choreic movements in Huntington disease always pathological?. Neuropsychologia, 2013, 51, 748-759. | 0.7 | 13 |
| 52 | Modelling Trial-by-Trial Changes in the Mismatch Negativity. PLoS Computational Biology, 2013, 9, e1002911. | 1.5 | 137 |
| 53 | A Neurocomputational Model of the Mismatch Negativity. PLoS Computational Biology, 2013, 9, e1003288. | 1.5 | 96 |
| 54 | Neurocomputational account of how the human brain decides when to have a break. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2641-2646. | 3.3 | 80 |

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|---|---------|-----|-----------|
| 55 | Neural Mechanisms Underlying Motivation of Mental Versus Physical Effort. PLoS Biology, 2012, 10, e1001266. | 2.6 | 255 |
| 56 | Your Goal Is Mine: Unraveling Mimetic Desires in the Human Brain. Journal of Neuroscience, 2012, 32, 7146-7157. | 1.7 | 33 |
| 57 | Stochastic dynamic causal modelling of fMRI data: Should we care about neural noise?. NeuroImage, 2012, 62, 464-481. | 2.1 | 98 |
| 58 | An electrophysiological validation of stochastic DCM for fMRI. Frontiers in Computational Neuroscience, 2012, 6, 103. | 1.2 | 20 |
| 59 | Learning and Generalization under Ambiguity: An fMRI Study. PLoS Computational Biology, 2012, 8, e1002346. | 1.5 | 17 |
| 60 | Generalised filtering and stochastic DCM for fMRI. NeuroImage, 2011, 58, 442-457. | 2.1 | 177 |
| 61 | Network discovery with DCM. NeuroImage, 2011, 56, 1202-1221. | 2.1 | 248 |
| 62 | Effective connectivity: Influence, causality and biophysical modeling. NeuroImage, 2011, 58, 339-361. | 2.1 | 361 |
| 63 | Dynamic causal modelling: A critical review of the biophysical and statistical foundations. NeuroImage, 2011, 58, 312-322. | 2.1 | 266 |
| 64 | A Bayesian foundation for individual learning under uncertainty. Frontiers in Human Neuroscience, 2011, 5, 39. | 1.0 | 460 |
| 65 | Concepts of Connectivity and Human Epileptic Activity. Frontiers in Systems Neuroscience, 2011, 5, 12. | 1.2 | 56 |
| 66 | Dynamic causal modeling of spontaneous fluctuations in skin conductance. Psychophysiology, 2011, 48, 252-257. | 1.2 | 44 |
| 67 | EEG and MEG Data Analysis in SPM8. Computational Intelligence and Neuroscience, 2011, 2011, 1-32. | 1.1 | 500 |
| 68 | Optimizing Experimental Design for Comparing Models of Brain Function. PLoS Computational Biology, 2011, 7, e1002280. | 1.5 | 40 |
| 69 | Action and behavior: a free-energy formulation. Biological Cybernetics, 2010, 102, 227-260. | 0.6 | 686 |
| 70 | The combination of EEG Source Imaging and EEGâ€€correlated functional MRI to map epileptic networks. Epilepsia, 2010, 51, 491-505. | 2.6 | 75 |
| 71 | Observing the Observer (I): Meta-Bayesian Models of Learning and Decision-Making. PLoS ONE, 2010, 5, e15554. | 1.1 | 130 |
| 72 | Generalised Filtering. Mathematical Problems in Engineering, 2010, 2010, 1-34. | 0.6 | 113 |

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| 73 | Striatal Prediction Error Modulates Cortical Coupling. Journal of Neuroscience, 2010, 30, 3210-3219. | 1.7 | 294 |
| 74 | Comparing Families of Dynamic Causal Models. PLoS Computational Biology, 2010, 6, e1000709. | 1.5 | 606 |
| 75 | EEG-fMRI INTEGRATION: A CRITICAL REVIEW OF BIOPHYSICAL MODELING AND DATA ANALYSIS APPROACHES. Journal of Integrative Neuroscience, 2010, 09, 453-476. | 0.8 | 104 |
| 76 | Dynamic causal modelling of anticipatory skin conductance responses. Biological Psychology, 2010, 85, 163-170. | 1.1 | 79 |
| 77 | Bayesian multi-modal model comparison: A case study on the generators of the spike and the wave in generalized spikeâ€"wave complexes. NeuroImage, 2010, 49, 656-667. | 2.1 | 13 |
| 78 | Ten simple rules for dynamic causal modeling. NeuroImage, 2010, 49, 3099-3109. | 2.1 | 712 |
| 79 | Observing the Observer (II): Deciding When to Decide. PLoS ONE, 2010, 5, e15555. | 1.1 | 43 |
| 80 | Reinforcement Learning or Active Inference?. PLoS ONE, 2009, 4, e6421. | 1.1 | 281 |
| 81 | Perception and hierarchical dynamics. Frontiers in Neuroinformatics, 2009, 3, 20. | 1.3 | 85 |
| 82 | Recognizing Sequences of Sequences. PLoS Computational Biology, 2009, 5, e1000464. | 1.5 | 105 |
| 83 | Variational Bayesian identification and prediction of stochastic nonlinear dynamic causal models. Physica D: Nonlinear Phenomena, 2009, 238, 2089-2118. | 1.3 | 165 |
| 84 | EEGâ€"fMRI Information Fusion: Biophysics and Data Analysis. , 2009, , 511-526. | | 14 |
| 85 | Population dynamics under the Laplace assumption. NeuroImage, 2009, 44, 701-714. | 2.1 | 76 |
| 86 | Bayesian model selection for group studies. NeuroImage, 2009, 46, 1004-1017. | 2.1 | 1,253 |
| 87 | Dynamic causal modelling of distributed electromagnetic responses. NeuroImage, 2009, 47, 590-601. | 2.1 | 95 |
| 88 | Integrated Bayesian models of learning and decision making for saccadic eye movements. Neural Networks, 2008, 21, 1247-1260. | 3.3 | 31 |
| 89 | Subliminal Instrumental Conditioning Demonstrated in the Human Brain. Neuron, 2008, 59, 561-567. | 3.8 | 281 |
| 90 | Concordance between distributed EEG source localization and simultaneous EEG-fMRI studies of epileptic spikes. NeuroImage, 2008, 39, 755-774. | 2.1 | 89 |

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| 91 | Variational Bayesian inversion of the equivalent current dipole model in EEG/MEG. NeuroImage, 2008, 39, 728-741. | 2.1 | 94 |
| 92 | Multiple sparse priors for the M/EEG inverse problem. NeuroImage, 2008, 39, 1104-1120. | 2.1 | 548 |
| 93 | Recent advances in recording electrophysiological data simultaneously with magnetic resonance imaging. NeuroImage, 2008, 40, 515-528. | 2.1 | 175 |
| 94 | Diffusion-based spatial priors for functional magnetic resonance images. NeuroImage, 2008, 41, 408-423. | 2.1 | 41 |
| 95 | DEM: A variational treatment of dynamic systems. NeuroImage, 2008, 41, 849-885. | 2.1 | 266 |
| 96 | Population dynamics: Variance and the sigmoid activation function. NeuroImage, 2008, 42, 147-157. | 2.1 | 130 |
| 97 | Nonlinear dynamic causal models for fMRI. NeuroImage, 2008, 42, 649-662. | 2.1 | 374 |
| 98 | A Hierarchy of Time-Scales and the Brain. PLoS Computational Biology, 2008, 4, e1000209. | 1.5 | 557 |
| 99 | Accurate Anisotropic Fast Marching for Diffusion-Based Geodesic Tractography. International Journal of Biomedical Imaging, 2008, 2008, 1-12. | 3.0 | 91 |
| 100 | Symmetrical event-related EEG/fMRI information fusion in a variational Bayesian framework. NeuroImage, 2007, 36, 69-87. | 2.1 | 189 |
| 101 | A neural mass model of spectral responses in electrophysiology. NeuroImage, 2007, 37, 706-720. | 2.1 | 185 |
| 102 | A mesostate-space model for EEG and MEG. NeuroImage, 2007, 38, 67-81. | 2.1 | 34 |
| 103 | Bayesian inversion for induced responses. , 2007, , 377-390. | | 0 |
| 104 | Evaluation of EEG localization methods using realistic simulations of interictal spikes. NeuroImage, 2006, 29, 734-753. | 2.1 | 211 |
| 105 | Bayesian Spatio-Temporal Approach for EEG Source Reconstruction: Conciliating ECD and Distributed Models. IEEE Transactions on Biomedical Engineering, 2006, 53, 503-516. | 2.5 | 63 |
| 106 | Conditional correlation as a measure of mediated interactivity in fMRI and MEG/EEG. IEEE Transactions on Signal Processing, 2005, 53, 3503-3516. | 3.2 | 32 |
| 107 | Assessing the relevance of fMRI-based prior in the EEG inverse problem: a bayesian model comparison approach. IEEE Transactions on Signal Processing, 2005, 53, 3461-3472. | 3.2 | 50 |
| 108 | Localization Estimation Algorithm (LEA): A Supervised Prior-Based Approach for Solving the EEG/MEG Inverse Problem. Lecture Notes in Computer Science, 2003, 18, 536-547. | 1.0 | 9 |

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| 109 | Testing and tracking in the UK: A dynamic causal modelling study. Wellcome Open Research, 0, 5, 144. | 0.9 | 12 |
| 110 | Estimating required â€˜lockdownâ€™ cycles before immunity to SARS-CoV-2: model-based analyses of susceptible population sizes, â€˜S0â€™, in seven European countries, including the UK and Ireland. Wellcome Open Research, 0, 5, 85. | 0.9 | 9 |