

# Peter Bossaerts

## List of Publications by Year in descending order

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104  
papers

7,769  
citations

87888

38  
h-index

62596

80  
g-index

113  
all docs

113  
docs citations

113  
times ranked

5591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Insula Activation Reflects Risk Prediction Errors As Well As Risk. Journal of Neuroscience, 2008, 28, 2745-2752.	3.6	697
2	Neural Differentiation of Expected Reward and Risk in Human Subcortical Structures. Neuron, 2006, 51, 381-390.	8.1	629
3	Implementing Statistical Criteria to Select Return Forecasting Models: What Do We Learn?. Review of Financial Studies, 1999, 12, 405-428.	6.8	486
4	Neural correlates of mentalizing-related computations during strategic interactions in humans. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6741-6746.	7.1	464
5	The Role of the Ventromedial Prefrontal Cortex in Abstract State-Based Inference during Decision Making in Humans. Journal of Neuroscience, 2006, 26, 8360-8367.	3.6	451
6	Neural Correlates of Value, Risk, and Risk Aversion Contributing to Decision Making under Risk. Journal of Neuroscience, 2009, 29, 12574-12583.	3.6	358
7	Ambiguity in Asset Markets: Theory and Experiment. Review of Financial Studies, 2010, 23, 1325-1359.	6.8	269
8	The Neural Representation of Unexpected Uncertainty during Value-Based Decision Making. Neuron, 2013, 79, 191-201.	8.1	212
9	Neural Antecedents of Financial Decisions: Figure 1.. Journal of Neuroscience, 2007, 27, 8174-8177.	3.6	199
10	Explicit neural signals reflecting reward uncertainty. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 3801-3811.	4.0	199
11	Encoding of Marginal Utility across Time in the Human Brain. Journal of Neuroscience, 2009, 29, 9575-9581.	3.6	183
12	Risk, Unexpected Uncertainty, and Estimation Uncertainty: Bayesian Learning in Unstable Settings. PLoS Computational Biology, 2011, 7, e1001048.	3.2	180
13	Using Neural Data to Test a Theory of Investor Behavior: An Application to Realization Utility. Journal of Finance, 2014, 69, 907-946.	5.1	174
14	An Optimal IPO Mechanism. Review of Economic Studies, 2002, 69, 117-146.	5.4	143
15	Risk and risk prediction error signals in anterior insula. Brain Structure and Function, 2010, 214, 645-653.	2.3	126
16	Equilibrium Asset Pricing and Portfolio Choice Under Asymmetric Information. Review of Financial Studies, 2010, 23, 1503-1543.	6.8	118
17	Adding Prediction Risk to the Theory of Reward Learning. Annals of the New York Academy of Sciences, 2007, 1104, 135-146.	3.8	117
18	Common nonstationary components of asset prices. Journal of Economic Dynamics and Control, 1988, 12, 347-364.	1.6	106

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19	Basic Principles of Asset Pricing Theory: Evidence from Large-Scale Experimental Financial Markets *. Review of Finance, 2004, 8, 135-169.	6.3	104
20	In the Mind of the Market: Theory of Mind Biases Value Computation during Financial Bubbles. Neuron, 2013, 79, 1222-1231.	8.1	101
21	Asset Prices and Trading Volume in a Beauty Contest. Review of Economic Studies, 1998, 65, 307-340.	5.4	97
22	Prices and Portfolio Choices in Financial Markets: Theory, Econometrics, Experiments. Econometrica, 2007, 75, 993-1038.	4.2	94
23	Exploring the Nature of "Trader Intuition". Journal of Finance, 2010, 65, 1703-1723.	5.1	92
24	Computational Complexity and Human Decision-Making. Trends in Cognitive Sciences, 2017, 21, 917-929.	7.8	92
25	MAOA-L carriers are better at making optimal financial decisions under risk. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2053-2059.	2.6	86
26	Neurobiological studies of risk assessment: A comparison of expected utility and mean-variance approaches. Cognitive, Affective and Behavioral Neuroscience, 2008, 8, 363-374.	2.0	83
27	Market Microstructure Effects of Government Intervention in the Foreign Exchange Market. Review of Financial Studies, 1991, 4, 513-541.	6.8	78
28	Economic Choices Reveal Probability Distortion in Macaque Monkeys. Journal of Neuroscience, 2015, 35, 3146-3154.	3.6	69
29	A General Equilibrium Model of Changing Risk Premia: Theory and Tests. Review of Financial Studies, 1989, 2, 467-493.	6.8	66
30	Behavioral contagion during learning about another agent's risk-preferences acts on the neural representation of decision-risk. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3755-3760.	7.1	66
31	The Human Brain Encodes Event Frequencies While Forming Subjective Beliefs. Journal of Neuroscience, 2013, 33, 10887-10897.	3.6	65
32	Evidence for Model-based Computations in the Human Amygdala during Pavlovian Conditioning. PLoS Computational Biology, 2013, 9, e1002918.	3.2	65
33	Neural Mechanisms Underlying Human Consensus Decision-Making. Neuron, 2015, 86, 591-602.	8.1	61
34	Chimpanzee choice rates in competitive games match equilibrium game theory predictions. Scientific Reports, 2014, 4, 5182.	3.3	61
35	What Decision Neuroscience Teaches Us About Financial Decision Making. Annual Review of Financial Economics, 2009, 1, 383-404.	4.7	57
36	The Speed of Information Revelation and Eventual Price Quality in Markets with Insiders: Comparing Two Theories*. Review of Finance, 2014, 18, 1-22.	6.3	55

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37	Excess demand and equilibration in multi-security financial markets: the empirical evidence. Journal of Financial Markets, 2003, 6, 1-21.	1.3	48
38	Differentiable contributions of human amygdalar subregions in the computations underlying reward and avoidance learning. European Journal of Neuroscience, 2011, 34, 134-145.	2.6	48
39	Promoting Intellectual Discovery: Patents Versus Markets. Science, 2009, 323, 1335-1339.	12.6	47
40	A Behavioral and Neural Evaluation of Prospective Decision-Making under Risk. Journal of Neuroscience, 2010, 30, 14380-14389.	3.6	47
41	The Affective Impact of Financial Skewness on Neural Activity and Choice. PLoS ONE, 2011, 6, e16838.	2.5	41
42	Inducing liquidity in thin financial markets through combined-value trading mechanisms. European Economic Review, 2002, 46, 1671-1695.	2.3	39
43	The CAPM in thin experimental financial markets. Journal of Economic Dynamics and Control, 2002, 26, 1093-1112.	1.6	39
44	Do not Bet on the Unknown Versus Try to Find Out More: Estimation Uncertainty and "Unexpected Uncertainty" Both Modulate Exploration. Frontiers in Neuroscience, 2012, 6, 150.	2.8	39
45	Hedging Your Bets by Learning Reward Correlations in the Human Brain. Neuron, 2011, 71, 1141-1152.	8.1	38
46	"Lucas" in the Laboratory. Journal of Finance, 2016, 71, 2727-2780.	5.1	37
47	Neural Mechanisms Behind Identification of Leptokurtic Noise and Adaptive Behavioral Response. Cerebral Cortex, 2016, 26, 1818-1830.	2.9	35
48	How Humans Solve Complex Problems: The Case of the Knapsack Problem. Scientific Reports, 2016, 6, 34851.	3.3	35
49	Separate encoding of model-based and model-free valuations in the human brain. NeuroImage, 2011, 58, 955-962.	4.2	34
50	Neural computations underlying inverse reinforcement learning in the human brain. ELife, 2017, 6, .	6.0	34
51	Positive Temporal Dependence of the Biological Clock Implies Hyperbolic Discounting. Frontiers in Neuroscience, 2011, 5, 2.	2.8	33
52	Risk and Reward Preferences under Time Pressure*. Review of Finance, 2014, 18, 999-1022.	6.3	33
53	Asset Pricing and Asymmetric Reasoning. Journal of Political Economy, 2015, 123, 66-122.	4.5	33
54	The human prefrontal cortex mediates integration of potential causes behind observed outcomes. Journal of Neurophysiology, 2011, 106, 1558-1569.	1.8	31

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55	Expectations and learning in Iowa. Journal of Banking and Finance, 2000, 24, 1535-1555.	2.9	28
56	Activity in Inferior Parietal and Medial Prefrontal Cortex Signals the Accumulation of Evidence in a Probability Learning Task. PLoS Computational Biology, 2013, 9, e1002895.	3.2	28
57	From behavioural economics to neuroeconomics to decision neuroscience: the ascent of biology in research on human decision making. Current Opinion in Behavioral Sciences, 2015, 5, 37-42.	3.9	28
58	Local parametric analysis of hedging in discrete time. Journal of Econometrics, 1997, 81, 243-272.	6.5	24
59	Uncertainty and computational complexity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180138.	4.0	24
60	IPO Post-Issue Markets: Questionable Predilections But Diligent Learners?. Review of Economics and Statistics, 2001, 83, 333-347.	4.3	23
61	Separating Probability and Reversal Learning in a Novel Probabilistic Reversal Learning Task for Mice. Frontiers in Behavioral Neuroscience, 2019, 13, 270.	2.0	23
62	The Econometrics of Learning in Financial Markets. Econometric Theory, 1995, 11, 151-189.	0.7	21
63	An Exploration of Neo-Austrian Theory Applied to Financial Markets. Journal of Finance, 2001, 56, 1011-1027.	5.1	19
64	Learning About Unstable, Publicly Unobservable Payoffs. Review of Financial Studies, 2015, 28, 1874-1913.	6.8	19
65	The Neurobiological Foundations of Valuation in Human Decision Making Under Uncertainty. , 2009, , 353-365.		19
66	Toward a Mechanistic Understanding of Human Decision Making. Current Directions in Psychological Science, 2008, 17, 119-123.	5.3	16
67	A TEST OF A GENERAL EQUILIBRIUM STOCK OPTION PRICING MODEL. Mathematical Finance, 1993, 3, 311-347.	1.8	15
68	Filtering Returns for Unspecified Biases in Priors when Testing Asset Pricing Theory. Review of Economic Studies, 2004, 71, 63-86.	5.4	15
69	Asset trading volume in infinite-horizon economies with dynamically complete markets and heterogeneous agents: Comment. Finance Research Letters, 2006, 3, 96-101.	6.7	15
70	Investigating signal integration with canonical correlation analysis of fMRI brain activation data. NeuroImage, 2008, 41, 35-44.	4.2	15
71	The Impact of Disappointment in Decision Making: Inter-Individual Differences and Electrical Neuroimaging. Frontiers in Human Neuroscience, 2011, 4, 235.	2.0	14
72	Perception of intentionality in investor attitudes towards financial risks. Journal of Behavioral and Experimental Finance, 2019, 23, 189-197.	3.8	14

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73	Foreign Exchange Rates Have Surprising Volatility. Lecture Notes in Statistics, 1996, , 55-72.	0.2	13
74	Local parametric analysis of derivatives pricing and hedging. Journal of Financial Markets, 2003, 6, 573-605.	1.3	12
75	The Experimental Study of Asset Pricing Theory. Foundations and Trends in Finance, 2009, 3, 289-361.	3.3	12
76	Experiments on Percolation of Information in Dark Markets. Economic Journal, 2017, 127, F518-F544.	3.6	11
77	Competition in Portfolio Management: Theory and Experiment. Management Science, 2015, 61, 1868-1888.	4.1	10
78	Generic properties of a computational task predict human effort and performance. Journal of Mathematical Psychology, 2021, 104, 102592.	1.8	10
79	Modeling the Evolution of Beliefs Using an Attentional Focus Mechanism. PLoS Computational Biology, 2015, 11, e1004558.	3.2	10
80	Chapter 2 From Market Jaws to the Newton Method: The Geometry of How a Market Can Solve Systems of Equations. Handbook of Experimental Economics Results, 2008, 1, 22-24.	0.2	9
81	Epilepsy and Ecstatic Experiences: The Role of the Insula. Brain Sciences, 2021, 11, 1384.	2.3	9
82	Experiments with Financial Markets: Implications for Asset Pricing Theory. American economist, The, 2001, 45, 17-32.	0.7	8
83	Formalizing the Function of Anterior Insula in Rapid Adaptation. Frontiers in Integrative Neuroscience, 2018, 12, 61.	2.1	7
84	How Neurobiology Elucidates the Role of Emotions in Financial Decision-Making. Frontiers in Psychology, 2021, 12, 697375.	2.1	7
85	Risk aversion in laboratory asset markets. Research in Experimental Economics, 2008, , 341-358.	0.2	6
86	Decision Making: How the Brain Weighs the Evidence. Current Biology, 2012, 22, R808-R810.	3.9	6
87	The chronometry of risk processing in the human cortex. Frontiers in Neuroscience, 2013, 7, 146.	2.8	6
88	Excessive Volatility is Also a Feature of Individual Level Forecasts. Journal of Behavioral Finance, 2014, 15, 16-29.	1.7	5
89	Decision Neuroscience: Why We Become More Cautious with Age. Current Biology, 2016, 26, R495-R497.	3.9	4
90	Costly Information Acquisition in Decentralized Markets: An Experiment. SSRN Electronic Journal, 2017,,.	0.4	4

#	ARTICLE	IF	CITATIONS
91	Transferring cognitive talent across domains to reduce the disposition effect in investment. Scientific Reports, 2021, 11, 23068.	3.3	4
92	In the Mind of the Market: Theory of Mind Biases Value Computation during Financial Bubbles. Neuron, 2013, 80, 1102.	8.1	3
93	Modelling price pressure in financial markets. Journal of Economic Behavior and Organization, 2009, 72, 119-130.	2.0	2
94	Predicting risk in a multiple stimulus-reward environment. , 2009, , 459-474.		2
95	Tax-Induced Intertemporal Restrictions on Security Returns. Journal of Finance, 1994, 49, 1347.	5.1	2
96	Martingale-Based Hedge Error Control. , 1997, , 290-304.		1
97	Experiments with Financial Markets: Implications for Asset Pricing Theory. , 2004, , 103-127.		0
98	Impaired recognition of the facial expressions in patients with Parkinson's disease. Neuroscience Research, 2007, 58, S4.	1.9	0
99	Human imagination in financial markets with insiders. Neuroscience Research, 2007, 58, S5.	1.9	0
100	Chapter 42 Asset Pricing. Handbook of Experimental Economics Results, 2008, 1, 364-369.	0.2	0
101	The Efficient Markets Hypothesis Does Not Hold When Securities Valuation Is Computationally Hard. SSRN Electronic Journal, 0, , .	0.4	0
102	Exploiting Distributional Temporal Difference Learning to Deal with Tail Risk. Risks, 2020, 8, 113.	2.4	0
103	Spatiotemporal Brain Signatures of Risk and Reward. SSRN Electronic Journal, 0, , .	0.4	0
104	Competitive Off-Equilibrium: Theory and Experiment. SSRN Electronic Journal, 0, , .	0.4	0