

# Noah C Benson

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,524  
citations

471061

17  
h-index

395343

33  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1544  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The Retinotopic Organization of Striate Cortex Is Well Predicted by Surface Topology. <i>Current Biology</i> , 2012, 22, 2081-2085.  | 1.8 | 214       |
| 2  | Correction of Distortion in Flattened Representations of the Cortical Surface Allows Prediction of V1-V3 Functional Organization from Anatomy. <i>PLoS Computational Biology</i> , 2014, 10, e1003538. | 1.5 | 175       |
| 3  | The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. <i>Journal of Vision</i> , 2018, 18, 23.   | 0.1 | 139       |
| 4  | Dynameomics: A Comprehensive Database of Protein Dynamics. <i>Structure</i> , 2010, 18, 423-435.   | 1.6 | 131       |
| 5  | Bayesian analysis of retinotopic maps. <i>ELife</i> , 2018, 7, .   | 2.8 | 102       |
| 6  | A Comparison of Multiscale Methods for the Analysis of Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8722-8731.  | 1.2 | 81        |
| 7  | Compressive Temporal Summation in Human Visual Cortex. <i>Journal of Neuroscience</i> , 2018, 38, 691-709.   | 1.7 | 70        |
| 8  | The Fine-Scale Functional Correlation of Striate Cortex in Sighted and Blind People. <i>Journal of Neuroscience</i> , 2013, 33, 16209-16219.   | 1.7 | 63        |
| 9  | Dynameomics: Large-scale assessment of native protein flexibility. <i>Protein Science</i> , 2008, 17, 2038-2050.   | 3.1 | 61        |
| 10 | Resting-State Retinotopic Organization in the Absence of Retinal Input and Visual Experience. <i>Journal of Neuroscience</i> , 2015, 35, 12366-12382.  | 1.7 | 55        |
| 11 | Cortical magnification in human visual cortex parallels task performance around the visual field. <i>ELife</i> , 2021, 10, .   | 2.8 | 52        |
| 12 | Dynameomics: design of a computational lab workflow and scientific data repository for protein simulations. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 369-377.                      | 1.0 | 41        |
| 13 | Patterns of Individual Variation in Visual Pathway Structure and Function in the Sighted and Blind. <i>PLoS ONE</i> , 2016, 11, e0164677.  | 1.1 | 38        |
| 14 | Cross-dataset reproducibility of human retinotopic maps. <i>NeuroImage</i> , 2021, 244, 118609.  | 2.1 | 34        |
| 15 | A validation framework for neuroimaging software: The case of population receptive fields. <i>PLoS Computational Biology</i> , 2020, 16, e1007924.   | 1.5 | 32        |
| 16 | Asymmetries around the visual field: From retina to cortex to behavior. <i>PLoS Computational Biology</i> , 2022, 18, e1009771.  | 1.5 | 24        |
| 17 | A CHEMICAL GROUP GRAPH REPRESENTATION FOR EFFICIENT HIGH-THROUGHPUT ANALYSIS OF ATOMISTIC PROTEIN SIMULATIONS. <i>Journal of Bioinformatics and Computational Biology</i> , 2012, 10, 1250008.         | 0.3 | 21        |
| 18 | Predicting neuronal dynamics with a delayed gain control model. <i>PLoS Computational Biology</i> , 2019, 15, e1007484.  | 1.5 | 21        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Unsupervised Learning of Cone Spectral Classes from Natural Images. PLoS Computational Biology, 2014, 10, e1003652.  | 1.5 | 20        |
| 20 | Hierarchical and homotopic correlations of spontaneous neural activity within the visual cortex of the sighted and blind. Frontiers in Human Neuroscience, 2015, 9, 25.  | 1.0 | 20        |
| 21 | Crossedâ€“uncrossed projections from primate retina are adapted to disparities of natural scenes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .                | 3.3 | 14        |
| 22 | Primary visual cortical thickness in correlation with visual field defects in patients with pituitary macroadenomas: a structural 7-Tesla retinotopic analysis. Journal of Neurosurgery, 2020, 133, 1371-1381. | 0.9 | 10        |
| 23 | Electrocorticography Evidence of Tactile Responses in Visual Cortices. Brain Topography, 2020, 33, 559-570.  | 0.8 | 8         |
| 24 | The HCP 7T Retinotopy Dataset: A new resource for investigating the organization of human visual cortex. Journal of Vision, 2018, 18, 215.   | 0.1 | 5         |
| 25 | Conservation of crowding distance in human V4. Journal of Vision, 2018, 18, 856.   | 0.1 | 3         |
| 26 | A visual encoding model links magnetoencephalography signals to neural synchrony in human cortex. NeuroImage, 2021, 245, 118655.   | 2.1 | 3         |
| 27 | Heritability of V1/V2/V3 surface area in the HCP 7T Retinotopy Dataset. Journal of Vision, 2019, 19, 41b.  | 0.1 | 3         |
| 28 | The Open Cataclysmic Variable Catalog. Research Notes of the AAS, 2020, 4, 219.  | 0.3 | 3         |
| 29 | Using fMRI to link crowding to hV4. Journal of Vision, 2019, 19, 14a.  | 0.1 | 2         |
| 30 | Conservation of crowding distance in human V4. Journal of Vision, 2017, 17, 19.  | 0.1 | 2         |
| 31 | A population receptive field model of the magnetoencephalography response. NeuroImage, 2021, 244, 118554.  | 2.1 | 1         |
| 32 | Use of a prior to improving the retinotopic maps of individual subjects. Journal of Vision, 2015, 15, 584.   | 0.1 | 1         |
| 33 | Toward a standard cortical observer. Journal of Vision, 2017, 17, 11.  | 0.1 | 1         |
| 34 | Mapping Spatial Frequency Preferences in the Human Visual Cortex. Journal of Vision, 2018, 18, 253.  | 0.1 | 1         |
| 35 | A model-based approach to link MEG responses to neuronal synchrony in visual cortex. Journal of Vision, 2019, 19, 211d.  | 0.1 | 1         |
| 36 | Computational validity of neuroimaging software: the case of population receptive fields. Journal of Vision, 2020, 20, 341.  | 0.1 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Temporal Summation and Adaptation in Human Visual Cortex. <i>Journal of Vision</i> , 2016, 16, 1228.  | 0.1 | 0         |
| 38 | Template fitting to automatically derive V1-V3 retinotopy from inter-areal functional correlations. <i>Journal of Vision</i> , 2016, 16, 136. | 0.1 | 0         |
| 39 | An anatomically-defined template of BOLD response in V1-V3. <i>Journal of Vision</i> , 2017, 17, 585.   | 0.1 | 0         |
| 40 | The Alignment of Systemic Low Frequency Oscillations with V1 Retinotopic Organization. <i>Journal of Vision</i> , 2019, 19, 79.               | 0.1 | 0         |
| 41 | Surface area and cortical magnification of V1, V2, and V3 in a large sample of human observers. <i>Journal of Vision</i> , 2019, 19, 41a.     | 0.1 | 0         |
| 42 | Asymmetries around the visual field in human visual cortex. <i>Journal of Vision</i> , 2020, 20, 543.   | 0.1 | 0         |
| 43 | A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.                              |     | 0         |
| 44 | A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.                              |     | 0         |
| 45 | A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.                              |     | 0         |
| 46 | A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.                              |     | 0         |