

CURRICULUM VITAE

Diane M. Beck

The Beckman Institute
405 North Mathews Avenue
University of Illinois, Urbana-Champaign
Urbana, IL 61801

Department of Psychology
603 East Daniel Street
University of Illinois, Urbana-
Champaign
Champaign, IL 61820

Phone: (217) 244-1118
Fax: (217) 244-8371
Email: dmbbeck@illinois.edu

Citizenship USA and New Zealand

Education

1998	Ph.D.	University of California, Berkeley; Cognitive Psychology Advisor: Stephen Palmer Thesis: Strategy Effects in Perceptual Grouping
1994	M.A.	University of California, Berkeley; Cognitive Psychology
1991	B.A.	University of California, Irvine; <i>Cum Laude</i> in Psychology

Academic Appointments

2017-present	Professor, Department of Psychology University of Illinois at Urbana-Champaign
2011-2017	Associate Professor, Department of Psychology University of Illinois at Urbana-Champaign
2005-2011	Assistant Professor, Department of Psychology University of Illinois at Urbana-Champaign
2002-2005	Research Associate at Princeton University
1999-2002	Postdoctoral Research Fellow at University College London

Research Support

Ongoing
Co-PI (Co-Directing with PI Li), Office of Naval Research (ONR) Multidisciplinary University Initiative (MURI), N000141410671, *Top-Down and Bottom-Up Visual Mechanisms at Multiple Spatial and Temporal Scales: Experimental Investigation and Computational Modeling, 2014-2020* (PI, Fei-Fei Li; Co-PIs, James DiCarlo, Jack Gallant, Jitendra Malik, Mary Peterson)
Renewed 2021-2022

Co-PI, NSF, *Enhancing the Success of Women in Vision Science: Females of Vision, et al. (FoVea)*, 2016-2020, (PI, Mary Peterson; Co-PIs, Karen Schloss).

Co-PI, NSF, *Females of Vision, et al (FoVea): Enhancing the Success, Visibility, and Impact of Women in Vision Science*, 2019-2022, (PI, Mary Peterson; Co-PIs, Karen Schloss).

Completed
PI, NIH grant, R01EY022605, *Investigating Frontoparietal and Occipitotemporal Contributions to Awareness*, 2013-2017 (Co-PIs, Gabriele Gratton, Monica Fabiani and Kyle Mathewson)

PI, NIH, R03 MH082012 A, *The Neural Bases of Perceptual Capacity Limitations*, 2007-09

PI, Critical Research Initiative Planning Grant, University of Illinois, *Pattern Recognition and Mind Reading: An Emerging Field*, 2006-2007

Co-PI, NIH equipment grant, 1 S10 RR029294, *Diffusive Optical Tomography (DOT) at the Biomedical Imaging Center*, 2010-2011 (PI, Gabriele Gratton)

Co-PI, NIH grant, R01EY019429, *CRCNS: fMRI Pattern Analysis of Neural Correlates of Natural Scene Categories*, 2008-2013 (PI and Co-PI, Fei-Fei Li and Dirk Bernhardt-Walther)

Core faculty, NIH training grant, T32 MH019554, *Training in Cognitive Psychophysiology*, 2008-2013 (PD, Wendy Heller)

PI, Campus Research Board, University of Illinois, *What brain processes determine awareness? Using optical imaging and binocular rivalry to probe changes in visual awareness*, 2012-2013

Academic Honors and Affiliations

Elected Society of Experimental Psychology Fellow (2019)

Elected Association for Psychological Science (APS) Fellow (2018)

Charles W. Erickson Professorial Scholar (2018)

University of Illinois: Campus Distinguished Promotion Award (2017)

Mabel Kirkpatrick Hohenboken Teaching Enhancement Award (2014)

University of Illinois Teachers Ranked as Excellent: Spring, 2007, Fall 2007, Fall 2008, Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Spring 2012, Fall 2012, Fall 2013 (top 10%), Spring 2014, Fall 2014, Spring 2015, Fall 2016, Spring 2017

Member of *Gesellschaft für Unendliche Versuche* (2009)

Phi Beta Kappa (1991)

Cum Laude in Psychology, University of California Irvine (1991)

Member of Association for Psychological Science

Member of Cognitive Neuroscience Society

Member of Society for Neuroscience

Member of Vision Sciences Society

Professional Activities

“Biologically-inspired Artificial Intelligence” Group Leader, Beckman Institute for Advanced Science & Technology, University of Illinois, 2021- present

Assistant Head of Information and Communications, Psychology Department, University of Illinois, Urbana-Champaign, 2019-present

Attention and Perception Program Area Coordinator, Psychology Department, University of Illinois, 2019-present

Co-Editor for Volume on “Knowledge and Vision” (Psychology of Learning and Motivation series)

Intelligent Systems (Major Research Theme) Co-Chair, Beckman Institute, University of Illinois, 2018-present

Beckman Institute Executive Committee, University of Illinois, 2018-present

Journal of Vision, Editorial Board, 2018-present

Member of Committee to Establish a Brain & Cognitive Science Undergraduate Major, 2017-present

Member of the College of Liberal Arts & Sciences Senior Women Faculty Advisory Group, U. of Illinois, 2017-present

VSS Abstract Review Committee, 2016-present

Beckman Institute Director Search Committee, U. of Illinois, 2016-17

Vice-Chair of Social Behavioral Research Institutional Review Board, University of Illinois, Urbana-Champaign, Fall 2016-present

“Mechanisms of Cognitive Control” Group Leader, Beckman Institute for Advanced Science & Technology, 2016- 2021

NIH Grant Writing Series Mentor, Interdisciplinary Health Sciences Initiative, University of Illinois, Urbana-Champaign, 2016-2018

Member of Social Behavioral Research Institutional Review Board, University of Illinois, Urbana-Champaign, Fall 2014-2016

Founding organizer of Females of Vision et al. (FoVea), 2016-present

Guest Editor for Special Issue of Pattern Recognition: “Machine Learning and Pattern Recognition Models for Change Detection”, 2015

Program Advisory Committee, Beckman Institute for Advanced Science & Technology, 2013-2017

Psychology Advisory Committee, 2013-2016

Cognitive Neuroscience Division Coordinator, Psychology, Fall 2014-2016

Visiting Scholar at Caltech in Electrical Engineering, Spring 2013

Visiting Professor (CooperInt), University of Verona, Summer 2012

Cognitive Neuroscience Group Leader, Beckman Institute for Advanced Science & Technology, 2011- 2016

Neuroscience Program, University of Illinois, 2005-present

Ad Hoc Reviewer for:

Attention, Perception, & Psychophysics

Brain Research

Cerebral Cortex

Cognition

Cognitive, Affective, & Behavioral Neuroscience

Cognitive Neuroscience

Cognitive Neuropsychology

Cognitive Psychology

Consciousness & Cognition

Cortex

eNeuro

Human Brain Mapping

Journal of Cognitive Neuroscience

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human

Perception & Performance

Frontiers in Aging Neuroscience

Frontiers in Human Neuroscience

Frontiers in Psychology

Journal of Neuroscience

Journal of Neurophysiology

Journal of Vision

Nature Human Behaviour

NeuroImage

Neuropsychologia

Perception and Psychophysics

PLoS Biology

Proceedings of the National Academy of Sciences

Psychonomic Bulletin and Review

Psychological Science

Psychophysiology

Scientific Reports

Visual Cognition

National Science Foundation

National Security Science and

Engineering Faculty Fellowship

(NSSEFF)

Netherlands Organisation for Scientific

Research (NWO) Vidi grant

U. of Illinois, Campus Research Board

Wellcome trust/DBT India Alliance

Fellowship

Marsden Fund Council

Austrian Science Fund (FWF)

Publications

Peer Reviewed Articles

1. Kumar, M. K., Federmeier, K. D., & Beck, D. M. (accepted). The N300: An Index For Predictive Coding Of Complex Visual Objects and Scenes, *Cerebral Cortex Communications*
2. Chiu, Y-C, Wang, T.W. Beck, D.M. Lewis-Peacock, J.A., & Sahakyan, L. (in press). Separation of Item and Context in Item-Method Directed Forgetting, *Neuroimage*
3. Metzger, B. A., & Beck, D. M. (2020). Probing the mechanisms of probe-mediated binocular rivalry. *Vision Research*, 173, 21-28. doi:10.1016/j.visres.2020.04.011
4. Center, E. G., Knight, R., Fabiani, M., Gratton, G., & Beck, D. M. (2019). Examining the role of feedback in TMS-induced visual suppression: A cautionary tale. *Consciousness and Cognition*, 75, 102805. <https://doi.org/10.1016/J.CONCOG.2019.102805>
5. Michel, M., Beck, D., Block, N., Blumenfeld, H., Brown, R., Carmel, D., ... Yoshida, M. (2019). Opportunities and challenges for a maturing science of consciousness. *Nature Human Behaviour*, 3(2), 104–107. <http://doi.org/10.1038/s41562-019-0531-8>
6. Groen, I.A., Greene, M.R., Baldassano, C., Fei-Fei, L., Beck, D.M., Baker, C. (2018). Distinct contributions of functional and deep neural network features to representational similarity of scenes in human brain and behavior. *Elife* 2018;7:e32962 DOI: 10.7554/eLife.32962
7. Kumar, M. K., Federmeier, K. D., Fei-Fei, L., & Beck, D. M. (2017). Evidence For Similar Patterns of Neural Activity Elicited by Picture- and Word-based Representations of Natural Scenes. *NeuroImage*, 155, 422-436. doi: 10.1016/j.neuroimage.2017.03.037.
8. Wang, Z., Liu, D. Chang, S., Dolcos, F., Beck, D and Huang, T. (2017). Image Aesthetics Assessment using Deep Chatterjee's Machine. *2017 International Joint Conference on Neural Networks (IJCNN)*, Anchorage, AK, 2017, pp. 941-948.
9. Metzger, B.A., Mathewson, K.E., Tapia, E., Fabiani, M., Gratton, G., Beck, D.M. (2017). Regulating the access to awareness: Brain activity related to probe-related and spontaneous reversals in binocular rivalry. *Journal of Cognitive Neuroscience*, 29(6):1089-1102. doi: 10.1162/jocn_a_01104.
10. Caddigan, E., Choo, H., Fei-Fei, L., & Beck, D.M (2017). Categorization influences detection: A Perceptual Advantage for Representative Exemplars of Natural Scene Categories. *Journal of Vision*, 17(1):21. doi: 10.1167/17.1.21.
11. Baldassano, C., Beck, D.M., Fei-Fei, L. (2017). Human-object interactions are more than the sum of their parts. *Cerebral Cortex*, 27(3):2276-2288. doi: 10.1093/cercor/bhw077.
12. Baldassano, C., Esteva, A., Fei-Fei, L., Beck, D.M. (2016). Two distinct scene processing networks connecting vision and memory. *eNeuro*, 3(5). pii: ENEURO.0178-16.2016.
13. Baldassano, C., Fei-Fei, L., Beck, D.M., (2016). Pinpointing the peripheral bias in neural scene processing networks during natural viewing. *Journal of Vision*, 16(2):9. doi: 10.1167/16.2.9.
14. Jordan, M.C., Greene, M.R., Beck, D.M. , & Fei-Fei, L. (2016). Typicality Sharpens Category Representations in Object- Selective Cortex. *Neuroimage*, 134:170-9.
15. Clevenger, J. & Beck, D.M. (2016). The Folly of Boxology. *Behavioral & Brain Sciences*, 39.
16. Greene, M.R., Baldassano, C., Beck, D.M , Fei-Fei, L. (2016) Visual Scenes are Categorized by Function. *Journal of Experimental Psychology: General*, 145(1),82-94.
17. Parks, N.A, Mazzi, C., Tapia, E., Savazzi, S., Fabiani, M., Gratton, G., & Beck, D.M. (2015). The Influence of Posterior Parietal Cortex on Extrastriate Visual Activity: A Concurrent TMS

and Fast Optical Imaging Study. *Neuropsychologia*, 78, 153-8.

18. Greene, M.R., Botros, A.P., Beck, D.M., Fei-Fei, L. (2015) What You See is What You Expect: Rapid Scene Understanding Requires Prior Experience. *Attention, Perception, & Psychophysics*, 77, (4), 1239-1251.
19. Jordan, M.C., Greene, M.R., Beck, D.M., Fei-Fei, L. (2015). Basic Level Category Structure Emerges Gradually Across Human Ventral Visual Cortex. *Journal of Cognitive Neuroscience*, 27(7), 1427-46.
20. Baldassano, C., Beck, D.M., & Fei-Fei, L. (2015). Parcellating connectivity in spatial maps. *PeerJ*, 3:e784 <http://dx.doi.org/10.7717/peerj.784>.
21. Bouchaffra, D., Cheriet, M., Jodoin, P. M., & Beck, D. (2015). Machine learning and pattern recognition models in change detection. *Pattern Recognition*, 3(48), 613-615. (Guest Editor, Special Issue)
22. Clevenger, J. & Beck, D.M. (2014): Refining the resource model: Cortical competition could explain hemifield independence, *Visual Cognition*, 22, 1022-1026.
23. Tapia, E. & Beck, D.M. (2014). Probing feedforward and feedback contributions to awareness with visual masking and transcranial magnetic stimulation. *Frontiers in Psychology*, 5: 01173. doi: 10.3389/fpsyg.2014.01173
24. Michal, A.G., Lleras, A., & Beck, D.M. (2014). Relative contributions of task-relevant and task-irrelevant dimensions in priming of popout. *Journal of Vision*, 14(12). pii: 14. doi: 10.1167/14.12.14.
25. Scaf, P.E., Ahn, J.W., Beck, D.M. & Lleras, A. (2014) Trial history effects in the ventral attentional network. *Journal of Cognitive Neuroscience*, 26(12):2789-97.
26. Mathewson, K.E., Beck, D.M., Ro, T., Maclin, E.L., Low, K.A., Fabiani, M., & Gratton, G. (2014). Dynamics of Alpha Control: Preparatory Suppression of Posterior Alpha Oscillations by Frontal Modulators Revealed with Combined EEG and Event-related Optical Signal. *Journal of Cognitive Neuroscience*, 26, 2400-15.
27. Tapia, E., Mazzi, C., Savazzi, S., & Beck, D.M. (2014). Phosphene-guided transcranial magnetic stimulation of occipital but not parietal cortex suppresses stimulus visibility. *Experimental Brain Research*, 232, 1989–1997.
28. Lavie, N., Beck, D.M., & Konstantinou (2014). Blinded by the load: attention, awareness and the role of perceptual load. *Philosophical Transactions of the Royal Society B*, 369: 20130205. <http://dx.doi.org/10.1098/rstb.2013.0205>
29. Beck, D.M., Emanuele, B., Savazzi, S. (2013). A new illusion of height and width: taller people are perceived as thinner. *Psychonomic Bulletin & Review*, 20, 1154-60.
30. Parks, N.A., Beck, D.M., Kramer, A.F. (2013) Enhancement and suppression in the visual field under perceptual load. *Frontiers in Psychology*, 4:275. doi: 10.3389/fpsyg.2013.00275 (*Special Issue: Early and late selection: Effects of load, dilution and salience*)
31. Scaf, P.E., Torralbo, A., Tapia, E., Beck, D.M. (2013). Competition explains limited attention and perceptual resources: implications for perceptual load and dilution theories. *Frontiers in Psychology*, 4:243. doi: 10.3389/fpsyg.2013.00243. (*Special Issue: Early and late selection: Effects of load, dilution and salience*)
32. Baldassano, C., Beck, D.M., Fei-Fei, L. (2013). Differential Connectivity Within the Parahippocampal Place Area. *NeuroImage*, 75, 236-245.
33. Torralbo, A., Walther, D., Chai, B., Caddigan, E., Fei-Fei, L., Beck, D.M. (2013). Good exemplars of natural scene categories elicit clearer patterns than bad exemplars but not greater

34. Mathewson, K.E., Prudhomme, C., Fabiani, M., Beck, D.M., Lleras, A., Gratton, G. (2012). Making waves in the stream of consciousness: Entraining oscillations in EEG Alpha and fluctuations in visual awareness with rhythmic visual stimulation. *J. of Cognitive Neuroscience*, 24, 2321-33.
35. Baldassano, C., Jordan, M.C., Beck, D.M., Fei-Fei, L. (2012). Voxel-Level Functional Connectivity using Spatial Regularization. *NeuroImage*, 63, 1099-1106.
36. Lustig, A.G. & Beck, D.M. (2012). Task-relevant and task-irrelevant dimensions are modulated independently at a task-irrelevant location. *Journal of Cognitive Neuroscience*, 24, 1884-95.
37. Savazzi, S., Emanuele, B., Scalf, S. & Beck, D. (2012). Reaction times and perceptual adjustments are sensitive to the illusory distortion of space. *Experimental Brain Research*, 218, 119-28.
38. Parks, N.A., Maclin, E.L., Low, K.A., Beck, D.M., Fabiani, M., & Gratton, G. (2012). Examining cortical dynamics and connectivity with simultaneous single-pulse transcranial magnetic stimulation and fast optical imaging. *NeuroImage*, 59, 2504-10.
39. Walther, D.B., Chai, B., Caddigan, E., Beck, D.M. & Fei-Fei, L. (2011). Simple line drawings suffice for functional MRI decoding of natural scene categories. *Proceedings of the National Academy of Sciences*, 108, 9661-6.
40. Scalf, P.E., Basak, C. & Beck, D. M. (2011). Attention does more than modulate suppressive interactions: attending to multiple items. *Experimental Brain Research*, 212, 293-304.
41. Mathewson, K.E., Lleras, A., Beck, D.M., Fabiani, M., Ro, T., & Gratton, G. (2011). Pulsed Out of Awareness: EEG Alpha oscillations represent a pulsed inhibition of ongoing cortical processing. *Frontiers in Psychology*, 2:99. doi: 10.3389/fpsyg.2011.00099
42. Caddigan, E., Walther, D.B., Fei-Fei, L., Beck, D.M. (2010) Perceptual Differences between Natural Scene Categories. *Visual Cognition*, 18, 1498-1501.
43. Beck, D.M. (2010). The appeal of the brain in the popular press. *Perspectives on Psychological Science*, 5, 762-766.
44. Scalf, P.E. & Beck, D. M. (2010). Competition in visual cortex impedes attention to multiple items. *Journal of Neuroscience*, 30, 161-169.
45. Mathewson, K.E., Fabiani, M., Gratton, G., Beck, D.M., & Lleras, A (2010). Making waves in the stream of consciousness: Eliciting predictable oscillations in visual awareness with pretarget entrainment at 12 Hz. *Visual Cognition*, 18, 137-141.
46. Mathewson, K.E., Fabiani, M., Gratton, G., Beck, D.M., & Lleras, A. (2010). Rescuing stimuli from invisibility: Inducing a momentary release from visual masking with pre-target entrainment. *Cognition*, 115, 186-191.
47. Yao, B, Walther, D.B., Beck, D.M. & Fei-Fei, L. (2009). Discovering and Modeling Interactions Between Brain Regions with Hidden Conditional Random Fields. In Y. Bengio, D. Schuurmans, J. Lafferty, C. K. I. Williams & A. Culotta (Eds.), *Advances in Neural Information Processing System 22* [<http://books.nips.cc/nips22.html>]
48. Chai, B, Walther, D.B., Beck, D.M. & Fei-Fei, L. (2009). Exploring Functional Connectivities of the Human Brain using Multivariate Information Analysis. In Y. Bengio, D. Schuurmans, J. Lafferty, C. K. I. Williams & A. Culotta (Eds.), *Advances in Neural Information Processing System 22* [<http://books.nips.cc/nips22.html>]
49. Walther, D.B., Caddigan, E., Fei-Fei, L., & Beck, D.M. (2009). Natural Scene Categories

Revealed in Distributed Patterns of Activity in the Human Brain. *Journal of Neuroscience*, 29, 10573-81.

50. Beck, D. M. & Kastner, S. (2009). Top-down and bottom-up mechanisms in biasing competition in the human brain. *Vision Research*, 49, 1154-65.
51. Mathewson, K., Gratton, G., Fabiani, M., Beck, D.M., & Ro, T. (2009). To See or Not to See: Pre-stimulus Alpha Phase Predicts Visual Awareness. *Journal of Neuroscience*, 29, 2725-32.
52. Torralbo, A. & Beck, D. (2008) Defining perceptual load: The role of local competitive interactions in visual cortex. *Visual Cognition*, 16, 1131-1134.
53. Torralbo, A. & Beck, D. M. (2008) Perceptual load-induced selection as a result of competitive interactions in visual cortex. *Psychological Science*, 19, 1045-50.
54. Palmer, S.E. and Beck, D.M. (2007). The Repetition Discrimination Task: An Objective Method for Studying Perceptual Grouping. *Perception & Psychophysics*, 69, 68-78.
55. Beck, D. M., & Kastner, S. (2007). Stimulus similarity modulates competitive interactions in human visual cortex. *Journal of Vision*, 7(2):19, 1-12
56. Beck, D. M., Muggleton, N., Walsh, V., & Lavie, N. (2006). Right Parietal Cortex Plays a Critical Role in Change Blindness. *Cerebral Cortex*, 16, 712-7.
57. Beck, D. M., Pinsk, M. A. & Kastner, S. (2005). Symmetry perception in humans and macaques. *Trends in Cognitive Sciences*, 9, 405-406.
58. Beck, D. M. & Kastner, S. (2005). Stimulus context modulates competition in human extrastriate cortex. *Nature Neuroscience*, 8, 1110-1116.
59. Beck, D.M. and Lavie, N. (2005). Look here but ignore what you see: effects of distractors at fixation. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 592-607.
60. Beck, D. M. & Palmer, S. E. (2002). Top-Down influences on Perceptual Grouping. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 1071-1084.
61. Prinzmetal, W., Ivry, R. B., Beck, D.M., & Shimizu, N. (2002). A Measurement Theory Of Illusory Conjunctions. *Journal of Experimental Psychology: Human Perception and Performance*, 28, 251-269.
62. Beck, D. M., Rees, G., Frith, C. D. & Lavie, N. (2001). Neural correlates of change detection and change blindness. *Nature Neuroscience*, 4, 645-650.
63. Prinzmetal, W., & Beck, D.M. (2001). The tilt constancy theory of visual illusions. *Journal of Experimental Psychology: Human Perception and Performance*, 27, 206-217.
64. Ehrlich, S.M., Beck, D.M., Crowell, J.A., Freeman, T.C.A., & Banks, M.S. (1998). Depth Information and Perceived Self-Motion during Simulated Gaze Rotations. *Vision Research*, 38, 3129-3145.
65. Friedrich, F.J., Egly, R., Rafal, R.D., & Beck, D. (1998). Spatial Attention Deficits in Humans: A Comparison of Superior Parietal and Temporal-Parietal Junction Lesions. *Neuropsychology*, 12, 193-207.
66. Palmer, S. E., Neff, J., & Beck, D. (1996). Late Influences on Perceptual Grouping: Amodal Completion. *Psychonomic Bulletin & Review*, 3(1), 75-80.
67. Beck, D. M., & Federmeier, K. D. (2019). *Knowledge and Vision* (Vol. 70). Academic Press.
68. Iordan, M.C., Joulin, A., Beck, D.M. , & Fei-Fei, L. (2015). Locally-Optimized Inter-Subject

69. Beck, D. M. & Kastner, S. (2014). Neural systems for spatial attention in the human brain: Evidence from neuroimaging in the framework of biased competition. In Sabine Kastner and Anna Christina Nobre (eds.) *Handbook of Attention*. Oxford, UK: Oxford University Press
70. Beck, D.M. & Tapia, E. (2013). The Brain. In E. Diener & R. Biswas-Diener (Eds), Noba textbook series: Psychology. Champaign, IL: DEF Publishers. DOI: www.nobaproject.com
71. Baldassano, C., Iordan, M.C., Beck, D.M. Fei-Fei, L. (2012) Discovering Voxel-Level Functional Connectivity Between Cortical Regions *Proceedings of the Machine Learning and Interpretation in Neuroimaging (MLINI) Workshop, NIPS 2012*.
72. Walther, D.B., Beck, D.M., & Fei-Fei, L. (2012). To err is human: correlating fMRI decoding and behavioral errors to probe the neural representation of natural scene categories. In Nikolaus Kriegeskorte and Gabriel Kreiman (eds.), *Understanding visual population codes – Toward a common multivariate framework for cell recording and functional imaging*. Cambridge, MA: MIT Press
73. Kastner, S., McMains, S. A., & Beck, D.M. (2009) Mechanisms of selective attention in the human visual system: Evidence from neuroimaging. In M. S. Gazzaniga (Ed.) *Cognitive Neurosciences IV*. Cambridge, MA: MIT Press.
74. Kastner, S. & Beck, D. M. (2005). Biasing competition in human visual cortex. In L. Itti, G. Rees, & J. Tsotsos (Eds.) *Neurobiology of Attention*. San Diego, CA: Elsevier.
75. Palmer, S., Neff, J., & Beck, D. (1997). Grouping and Amodal Completion. In I. Rock (Ed.) *Indirect Perception*. Cambridge, MA: MIT Press/Bradford Books.

**Publicly
Available
Manuscripts**

Clevenger, J., Yang, P.-L., & Beck, D. M. (2019). An advantage for targets located horizontally to the cued location. *BioRxiv*, 740712. <https://doi.org/10.1101/740712>

Greene, M. R., Botros, A. P., Beck, D. M., & Fei-Fei, L. (2014). Visual noise from natural scene statistics reveals human scene category representations. *arXiv preprint arXiv:1411.5331*. <https://arxiv.org/abs/1411.5331>

Manuscripts

Cunningham, E. Wang, R. & Beck, D.M. (submitted). Effects of rhythmic auditory stimulation on vision: oscillations in performance can be enhanced, but not induced. *Journal of Experimental Psychology: Human Perception and Performance*

Iordan, M.C., Greene, M.R., Fei-Fei, L., & Beck, D.M. (in revision). Sequential Warping of Neural Representations Contributes to the Emergence of Separable Object Categories.

Center, E.G., & Beck, D.M. (in preparation). Typical Viewpoints of Objects are Better Detected than Atypical Ones.

Metzger, Low, Fabiani, Gratton, Beck (in preparation) Frontoparietal network activity precedes and facilitates updates to visual consciousness during binocular rivalry.

Center, Federmeier, & Beck (in preparation) Sensitivity to Statistical Regularity does not require attention.

Clevenger & Beck (in preparation). Unpacking the resource account of hemispheric independence