Curriculum Vitae
David E. Huber

Department of Psychology and Neuroscience   Office: (303) 492-8662
University of Colorado Boulder   fax: (303) 492-2967
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Research Areas
- Memory, perception, and attention
- Computational models of behavior (Bayesian and neural network)
- Neural dynamics and neural imaging (EEG and fMRI)

Education
- Postdoctoral Fellow. University of Colorado Boulder, Institute of Cognitive Science. Advisors: Randy O'Reilly, Michael C. Mozer, & Tim Curran 1999-2003.
- Ph.D. Joint degree in Cognitive Psychology and Cognitive Science with a minor in Neuroscience and a certificate in mathematical modeling and another in dynamical systems. Indiana University, 2000. Advisor: Richard M. Shiffrin.
- B.A. in Psychology and Physics with Honors, Williams College, 1991.

Academic Positions
- Professor, University of Colorado Boulder, Department of Psychology, 2023-
- Professor, University of Massachusetts, Amherst, Department of Psychology, 2013-2023
- Associate Professor. University of California, San Diego, Department of Psychology. 2009-2013
- Assistant Professor. University of California, San Diego, Department of Psychology. 2006-2008.
- Assistant Professor. University of Maryland, Department of Psychology. 2003-2005.

Honors
- Indiana University Psychological and Brain Sciences Alumni Recognition, "Game Changer", 2015.
- Co-author, "Perception/Action Modeling Prize", *Cognitive Science Conference*, 2009
- "Featured Presenter" at 2nd annual Science Leadership Conference, hosted by APA's Science Directorate and the Board of Scientific Affairs, 2006
- "Early Investigator Award", Society of Experimental Psychologists, 2006
- "New Investigator Award", American Psychological Association, for an article appearing in *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 2003
- "Young Investigator Award", Society for Mathematical Psychology, 2001
- "Outstanding Dissertation Award", Indiana University Cognitive Science Program, 2000

Funding

External
- co-PIs David Huber and Rosemary Cowell, NIMH, BRAIN Initiative, "Using fMRI to Measure the Neural-level Signals Underlying Population-level Responses", RF1MH114277, 2017-2021 ($1,753,274 direct costs over 4 years).
- PI, NSF, REU Supplement, BCS-1431147, 2016-2017 ($16,346 direct costs over 1 year).
- PI, NSF, "Neural habituation: A unified account of visual identification dynamics across tasks", BCS-1431147, 2014-2017 ($235,179 direct costs over 3 years).

- PI, NSF, "Collaborative Research: Modeling Perception and Memory: Studies in Priming", BCS-0843773, 2009-2011 ($175,000 direct costs over 2 years).
- PI, NIMH R03, "A Stochastic Judgment Model of Recall: Separating memory, confidence, and correlation", RMH081084A, 2009-2011 ($100,000 direct costs over 2 years).
- PI, NIMH, RMH081084-02S1 Competitive supplement, 2010-2011 ($50,000 direct costs over 6 months).
- co-PI, NIMH R01, "Modeling Perception and Memory: Studies in Priming", MH063993-04, 2004-2007 ($675,000 direct costs over 3 years).
- co-PI, NIMH R01, "Modeling Perception and Memory: Studies in Priming", MH63993-01, 2001-2004 ($450,000 direct costs over 3 years).
- National Science Foundation (NSF) Graduate Research Fellowship (DGE-9253867 006), 1995-1998.

Internal
- PI, Academic Senate Bridge Funding, "A stochastic judgment model of recall: Separating memory, confidence, and correlation", RH174G-HUBER, 2008 ($25,000 direct costs over 1 year).
- PI, Academic Senate award, "Semantic Satiation: Simulating MEG data", RH174G-HUBER, 2008 ($2,581 direct costs over 1 year).
- PI, Academic Senate award, "Measuring Behavioral Inhibition: Deciding versus Braking", RH237G-HUBER, 2007-2008 ($10,000 direct costs over 1 year).
- PI, Academic Senate award, "The Dynamics of Face Perception", RF839C-HUBER, 2006-2007 ($7,638 direct costs over 1 year).
- University of Colorado, Institute of Cognitive Science, Postdoctoral Fellowship, 1999-2001
- Indiana University College of Arts and Sciences (COAS) Dissertation Year Research Fellowship 1998.

Advising

Current PhD Students
- Sriti, Psychology and Neuroscience (co-advised)
- Jennifer Gove, Psychology and Neuroscience (co-advised)
- Kate Walsh, Psychology and Neuroscience (co-advised)

Former PhD Students, year defended
- Tejas Sevalia, Psychological and Brain Sciences (co-advised)
- Mar Nikiforova, Psychological and Brain Sciences (co-advised)
- Anna McCarter, Psychological and Brain Sciences (co-advised)
- Natasha De La Rosa-Rivera, 2023, Neuroscience and Behavior (co-advised)
- Len Jacob, 2021, now postdoc, Boston University
- Patrick Sadil (co-advised), 2020, now postdoc, John Hopkins University
- William Hopper, 2019, now Lecturer, Smith College
- Kevin Smith (co-advised), 2016, now postdoc, Massachusetts Institute of Technology
- Cory Rieth, 2012, now staff scientist at Pacific Science & Engineering
- Patrice Rusconi (co-advised), 2011, now Lecturer, University of Messina, Italy
- Eric Siegel (co-advised), 2010, now Lecturer, American University
- Tracy Tomlinson, 2009, now Lecturer, University of Maryland
- Xing Tian, 2008, now Assistant Professor, New York University Shanghai
- Kris Finklea (co-advised), 2008, now Staff Scientist, Congressional Research Center
- Yoonhee Jang (co-advised), 2006, now Associate Professor, University of Montana
- Christoph Weidemann (co-advised), 2006, now Associate Professor, Swansea University

Former Masters Students (years defended)
- Sneha Aenugu, 2020, now PhD student at the California Institute of Technology

- Jeffery Durbin, 2019, now MS/PhD student in the Biostatistics at the University of Kansas Medical Center

Former Postdocs (years advised)
- Kevin Potter, 2015-2018, now Research Fellow, Massachusetts General Hospital
- Yoonhee Jang, 2006-2012, now Associate Professor, University of Montana
- Eddy Davelaar, 2005-2006, now Reader, Birkbeck College, UK
- Woo Young Chun, 2003-2004, now Professor, Chungnam National University, South Korea

Former Undergraduate Honors Students
- Nick Blauch (2016-2017), now PhD student, Carnegie Mellon University
- Luke Huszar (2016-2017), now PhD student, New York University
- William Hopper (2010-2011), now Lecturer, Smith College

Other PhD committees (year defended)
- Lucas Hayne (Computer Science), 2023
- Aruni RoyChowdhury (Computer Science), 2020
- Pia Bideau (Computer Science), 2019
- SouYoung Jin (Computer Science), 2019
- Jenny McCallen (Marketing), 2018
- Robert Bond (Political Science), 2013
- Tiffany Ho, 2012
- Ian Greenhouse, 2012
- Sameer Saproo, 2012
- Jason Jones, 2011
- Troy Chenier, 2010
- Pamela Pallett, 2008
- Stacy President, 2006
- Yoonhee Jang, 2006
- Hong Jiang, 2006
- Tim Pleskac, 2004

Other Masters committees (year defended)
- Anushree, Mehta, 2018
- James Hobbs, 2015

Teaching
- Graduate, Introduction to Bayesian Statistics: 2011
- Graduate, Quantitative Methods (Statistics): 2006,2007,2008
- Graduate, Seminar in Mathematical Models: 2005,2007,2009,2011,2012,2014,2019,2022
- Graduate, Seminar in priming and performance paradigms: 2008,2010
- Graduate, Survey of Cognitive Science: 2004(2),2005
- Graduate, Cognitive Psychology: 2014,2015,2016,2018,2019,2020,2021
- Undergraduate, Visual Science, 2020,2021
- Undergraduate, Perception, 2024
- Undergraduate, Statistics in Psychology, 2018
- Undergraduate, Introduction to Cognitive Psychology: 2000,2004,2006,2008,2013,2014(2),2016,2023
- Undergraduate, Methods of Experimental Psychology: 1996,1998,2004(2),2009(2),2010(2),2011(2)

University and Department Service
- Psychology and Neuroscience Awards Committee (2023-2024)

- Psychology and Neuroscience Executive Committee (2023-2024)
- Psychology and Neuroscience Primary Unit Evaluation Committee (2023-2024)
- Institutional Review Board Departmental Representative (2023-2024)
- Psychological and Brain Sciences, Graduate Studies Committee (2017-2020; 2021-2022)
- Psychological and Brain Sciences, Safety Committee (2017-2022)
- Institutional Review Board (2008-2012; 2017-2022)
- Psychological and Brain Sciences, Research Committee (2020-2022)
- COVID-19: Human Subjects Research Group (2020)
- Neuroscience and Behavior Program Graduate Operations Committee (2018-2020)
- Member, PBS Behavioral Neuroscience Search Committee (2018-2019)
- Mahoney Life Sciences Prize, review committee (2018-2019)
- Psychological and Brain Sciences, Graduate Program Director (2017)
- Psychological and Brain Sciences, Information Technology (2016-2018)
- Neuroscience and Behavior Program Steering Committee (2015-2018)
- Executive Neuroscience Strategic Planning Committee (2015-2016)
- Neuroscience Strategic Planning Committee (2014-2016)
- Co-chair, Psychological and Brain Sciences Personnel Committee (2015-2016)
- Co-chair, Neuroscience Leadership Search Committee (2015-2016)
- Psychology Computer/Web Committee (2013-2014)
- Academic Senate (2010-2012)
- Psychology Computer Resource Committee (2006-2012)
- Psychology Graduate Admissions Committee (2009-2011)
- Psychology Quantitative Search Committee (2008-2009)

Professional Activities

Public Outreach
- Discover Magazine article covering my research on 'semantic satiation', 2021
- Co-author of 'Covid Balance' blog, a forum for balanced discussion of Covid19 data and policy.
- Advisor for UMass STEM Ambassador's Program students (2016-2019)
- Presentation for preschoolers at the UMass Center for Early Education and Care, 2019
- Inverse magazine article on semantic satiation, 2018
- Presentation for kindergarten class at the Pioneer Valley Chinese Immersion Charter School, 2018
- New York Times article on memory suppression, 2015.
- "faculty chat" event at Lyon/Dwight residential cluster, 2014.
- Worked with Stephen K. Reed on chapter 2, *Cognition: Theory and Applications (8th ed)*, 2009.
- Memory Lecture for science reporters, *The Knight Center for Specialized Journalism*, 2004.

Society Memberships
- *Society of Experimental Psychologists*
- *Fellow of the Psychonomic Society*

Reviewing
- Editorial boards
  - Associate Editor (2009-2011): *Memory & Cognition*
  - Consulting Editor (2006-2010): *Psychonomic Bulletin & Review*
  - Consulting Editor (2008-2010): *Psychological Review*
  - Consulting Editor (2006-2009): *Journal of Experimental Psychology: Learning Memory & Cognition*
- Grant panels

- o *Institute of Education Sciences (IES), basic processes* (2015-2017)
- o Grant Study Section (2008): *Institute of Education Sciences (IES), basic processes*
- o Grant Study Section (2006): *AFOSR, Multidisciplinary University Research Initiative*
- o Grant Study Section (2006): *NIH, Cognition and Perception*
- o Grant Study Section (2005): *NIH, Special Emphasis Panel*
- Ad hoc grant reviewing
  - o *National Science Foundation (NSF)*
  - o *National, Institute of Health (NIH)*
  - o *Air Force Office of Scientific Research (AFOSR)*
  - o *Biotechnology and Biological Sciences Research Council (UK)*
  - o *United States - Israel Binational Science Foundation*
- Conference submission reviewing
  - o *Context and Episodic Memory Symposium, organizing committee* (2014-2017)
  - o *Ad hoc reviews for Cognitive Science Conference Proceedings*
- Ad hoc journal reviewing
  - o *Acta Psychologica*
  - o *Advances in Cognitive Psychology*
  - o *American Journal of Psychology*
  - o *Attention, Perception, & Psychophysics*
  - o *Brain Research*
  - o *Canadian Journal of Experimental Psychology*
  - o *Collabra: Psychology*
  - o *Cognitive Psychology*
  - o *Cognitive Science: A Multidisciplinary Journal*
  - o *Communications Psychology*
  - o *Consciousness and Cognition*
  - o *Cortex*
  - o *eLIFE*
  - o *Emotion*
  - o *Frontiers in Human Neuroscience*
  - o *Frontiers in Neuroscience*
  - o *Heliyon*
  - o *Journal of Experimental Psychology: General*
  - o *Journal of Experimental Psychology: Human Perception and Performance*
  - o *Journal of Experimental Psychology: Learning Memory & Cognition*
  - o *Journal of Cognitive Neuroscience*
  - o *Journal of Mathematical Psychology*
  - o *Journal of Memory & Language*
  - o *Journal of Personality and Social Psychology*
  - o *Mathematical Social Sciences*
  - o *Nature Communications*
  - o *Memory & Cognition*
  - o *Neural Information Processing Systems (NIPS)*
  - o *Neuroimage*
  - o *Neuroscience of Consciousness*
  - o *Neuropsychologia*
  - o *Open Mind: Discoveries in Cognitive Science*
  - o *Perception, & Psychophysics*
  - o *PLOS Computational Biology*
  - o *PLOS ONE*

- o *Proceedings of the National Academy of Sciences (PNAS)*
- o *Psychological Review*
- o *Psychonomic Bulletin & Review*
- o *Quarterly Journal of Experimental Psychology*
- o *Visual Cognition*

Invited Talks
- School of Psychological Science, University of Bristol, Bristol, England, 2023.
- Department of Psychology and Neuroscience, University of Colorado Boulder, 2022.
- Department of Psychology, University of Exeter, Devon, England, 2021.
- Institut fur Neuroinformatik, Ruhr-Universitat Bochum, keynote speaker at "Generative episodic memory: Interdisciplinary perspectives from neuroscience, psychology and philosophy (GEM)" workshop, 2021.
- Rutgers University, Center for Cognitive Science, "Computation, Cognition and the Brain" Workshop, New Brunswick, New Jersey, 2018.
- Society for Mathematical Psychology Symposium, New Brunswick, New Jersey, 2016.
- Jeroen G. W. Raaijmakers Festschrift, Amsterdam, The Netherlands, 2016.
- Institute for Social Science Research, University of Massachusetts, Amherst, Massachusetts, 2016.
- Department of Psychological and Brain Sciences, Indiana University, Bloomington, Indiana, 2015.
- Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, England, 2015.
- Department of Psychology, University of Cambridge, England, 2015.
- Neuroscience and Behavior colloquium, University of Massachusetts, Amherst, Massachusetts, 2014.
- Department of Psychology, Williams College, Williamstown, Massachusetts, 2013.
- Department of Psychology, University of Massachusetts, Amherst, Massachusetts, 2013.
- Department of Psychology, University of Kent, Canterbury, England, 2012.
- Richard M. Shiffrin Festschrift, Indiana University, Bloomington, Indiana, 2012.
- School of Experimental Psychology, Bristol University, Bristol, England, 2012.
- Department of Psychology, Michigan State University, East Lansing, Michigan, 2012.
- Department of Cognitive and Perceptual Brain Sciences at University College London, England, 2011.
- Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, England, 2011.
- Department of Cognitive Science, University of California, San Diego, 2011.
- Department of Cognitive Science, University of California, Irvine, 2010.
- Department of Psychology, Birkbeck College, University of London, England, 2009.
- Department of Computer Science, University of Kent, Canterbury, England, 2009.
- "Connecting probabilistic models of cognition and neural networks", Berkeley, California, 2008.
- Department of Psychology, San Diego State University, California, 2008.
- "Dynamics of cognitive processing: Choice, attention, emotion", Birkbeck, University of London, 2006.
- "The probabilistic mind: Prospects for rational models of cognition", Gatsby Computational Neuroscience Unit, 2006.
- Laboratoire de Psychologie Sociale et Cognitive, CNRS, Clermont-Ferrand, France, 2005.
- Department of Psychology, Penn State University, State College, Pennsylvania, 2005.
- Institute of Pure and Applied Mathematics (IPAM), "Probabilistic Models of Cognition" workshop, University of California, Los Angeles, California, 2005.
- Department of Psychology, University of California, San Diego, California, 2005.
- Department of Psychology, George Mason University, Fairfax, Virginia, 2005.
- Department of Psychology, Ohio State University, Columbus, Ohio, 2003.

- Department of Psychology, University of Bern, 2003.
- Department of Psychology, Colorado State University, Fort Collins, Colorado, 2003.
- Department of Psychology, University of Denver, Denver, Colorado, 2003.
- *35th Annual Meeting of the Society for Mathematical Psychology,* Miami University, Oxford, Ohio, 2002.
- Department of Psychology, University of Maryland, College Park, Maryland, 2002.
- Department of Cognitive Sciences, University of California, Irvine, California, 2002.
- Department of Psychology, University of California, Riverside, California, 2002.

Peer Reviewed Research Papers (*advised student/postdoc first author)

2024

82. Huber, D. E. ([selective review](#)). The Primary Function of MTL is Memory, not Navigation: Grid Cells are Non-spatial (what) and Place Cells are Memories (what and where) that Cause Grid Fields through Retrieval. *eLife* (under *eLife* publishing model, <30% of articles are sent for review and all reviewed articles are published, along with reviews, unless retracted by submitting authors).

2023

81. *Sadil, P. S., Cowell, R. A., & Huber, D. E. ([2023](#)). The Push-pull of Serial Dependence Effects: Attraction to the Prior Response and a Repulsion from the Prior Stimulus. *Psychonomic Bulletin & Review*, 1-15.

80. *Nikiforova, M., Cowell, R. A., & Huber, D. E. ([2023](#)). Gestalt formation promotes awareness of suppressed visual stimuli during binocular rivalry. *Visual Cognition*, *31*(1), 18-42.

2022

79. *Sadil, P., Cowell, R. A., & Huber, D. E. ([2022](#)). A modeling framework for determining modulation of neural-level tuning from non-invasive human fMRI data. *Communications Biology, 5* (Article No. 1244), 1-12. ([Supplementary Information](#)).

78. Park, J., & Huber, D. E. ([2022](#)). A visual sense of number emerges from divisive normalization in a simple center-surround convolutional network. *eLife*, 1-16.

77. Huber, D. E., Cohen, A. L., & Staub, A. ([2022](#)). A 'compensatory selection' effect with standardized tests: Lack of correlation between test scores and success is evidence that test scores are predictive of success. *PLOS ONE*. https://doi.org/10.1371/journal.pone.0265459

2021

76. *Aenugu, S. & Huber, D. E. ([2021](#)). Asymmetric weights and retrieval practice in an autoassociative neural network model of paired-associate learning. *Neural Computation, 33,* 3351-3360.

75. *Jacob, L. P. L., Potter, K. W., & Huber, D. E. ([2021](#)). A neural habituation account of the negative compatibility effect. *Journal of Experimental Psychology: General, 150*(12), 2567-2590.

2020

74. Cowell, R. A. & Huber, D. E. ([2020](#)). Mechanisms of memory: An intermediate level of analysis and organization. *Current Opinion in Behavioral Sciences*, *32*, 65-71.

2019

73. *Jacob, L. P. L. & Huber, D. E. ([2019](#)). Neural habituation enhances novelty detection: an EEG study of rapidly presented words. *Computational Brain & Behavior*, 1-20.

72. *Sadil, P. S., Potter, K. W., Huber, D. E., & Cowell, R. A. ([2019](#)). Connecting the dots without top-down knowledge: Evidence for rapidly-learned low-level associations that are independent of object identity. *Journal of Experimental Psychology: General*, *148*(6), 1058-1070.

71. *Hopper, W. J. & Huber, D. E. (2019). Testing the Primary and Convergent Retrieval model of recall: Recall practice produces faster recall success but also faster recall failure. *Memory and Cognition*, *47*, 816-841.

70. Huber, D. E., Potter, K. W., & Huszar, L. D. (2019). Less "Story" and more "Reliability" in cognitive neuroscience. *Cortex*, *113*, 347-349.

69. *Sadil, P. S., Cowell, R. A., & Huber, D. E. (2019). A hierarchical Bayesian state trace analysis for assessing monotonicity while factoring out subject, item, and trial level dependencies. *Journal of Mathematical Psychology*, *90*, 118-131.

68. Wessel, J. R. & Huber, D. E. (2019). Frontal cortex tracks surprise separately for different sensory modalities but engages a common inhibitory control mechanism. *PLOS Computational Biology*, *15*(7), 26 pages.

67. Jang, Y., Lee, H., & Huber, D. E. (2019). How many dimensions underlie judgments of learning and recall redux: Consideration of recall latency reveals a previously hidden nonmonotonicity. *Journal of Mathematical Psychology*, *90*, 47-60.

2018

66. *Potter, K. W., Huszar, L. D., & Huber, D. E. (2018). Does inhibition cause forgetting after selective retrieval? A reanalysis and failure to replicate. *Cortex*, 26-45.

65. *Hopper, W. J., & Huber, D. E. (2018). Learning to recall: Examining recall latencies to test an intra-item learning theory of testing effects. *Journal of Memory and Language, 102,* 1-15.

64. *Potter, K. W., Donkin, C., & Huber, D. E. (2018). The elimination of positive priming with increasing prime duration reflects a transition from perceptual fluency to disfluency rather than bias against primed words. *Cognitive Psychology*, *101*, 1-28.

63. *Rusconi, P. & Huber, D. E. (2018). The perceptual wink model of non-switching attentional blink tasks. *Psychonomic Bulletin & Review, 25,* 1717-1739.

62. *Huszar, L. D., & Huber, D. E. (2018). Evidence that the Attention Blink Reflects Categorical Perceptual Dynamics. Kalish, C., Rau, M., Zhu, J., & Rogers, T. (Eds.). *Proceedings of the 40th Annual Conference of the Cognitive Science Society.* Madison, WI: Cognitive Science Society, 1847-1852.

2017

61. *Rieth, C. A. & Huber, D. E. (2017). Comparing different kinds of words and word-word relations to test an habituation model of priming. *Cognitive Psychology*, *95*, 79-104.

60. Carr, E. W., Huber, D. E., Pecher, D., Zeelenberg, R., Halberstadt, J., & Winkielman, P. (2017). The ugliness-in-averageness effect: Tempering the warm glow of familiarity. *Journal of Personality and Social Psychology*, *112*(6). 787-812.

2016

59. *Hopper, W. J., Huber, D. E. (2016). The primary and convergent retrieval model of recall. Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.). *Proceedings of the 38th Annual Conference of the Cognitive Science Society.* Austin, TX: Cognitive Science Society, 1235-1240.

2015

58. Huber, D. E. (2015). Using continual flash suppression to investigate cognitive aftereffects. *Consciousness and Cognition*, *35*, 30-32.

57. Huber, D. E., Tomlinson, T. D., Jang, Y., & Hopper, W. J. (2015). The search of associative memory with recovery interference (SAM-RI) memory model and its application to retrieval practice paradigms. In J. Raaijmakers, A. Criss, R. Goldstone, R. Nosofsky, & M. Steyvers (Eds.) *Cognitive*

Modeling in Perception and Memory: A Festschrift for Richard M. Shiffrin. New York: Psychology Press, 81-98.

2014

56. *Hopper, W. J., Finklea, K. M., Winkielman, P., & Huber, D. E. (2014). Measuring sexual dimorphism with a race-gender face space. *Journal of Experimental Psychology: Human Perception and Performance, 40*(5), 1779-1788.

55. *Jang, Y., Pashler, H., & Huber, D. E. (2014). Manipulations of choice familiarity in multiple-choice testing support a retrieval practice account of the testing effect. *Journal of Educational Psychology*, *106*(2), 435-447.

54. Huber, D. E. (2014). The rise and fall of the recent past: a unified account of immediate repetition paradigms. In B. Ross (Ed.) *Psychology of Learning and Motivation, 60*. PLM, UK: Academic Press, 191-226. (integration and separation demo).

2013

53. *Rieth, C. A. & Huber, D. E. (2013). Implicit learning of spatiotemporal contingencies in spatial cueing. *Journal of Experimental Psychology: Human Perception and Performance, 39,* 1165-1180.

52. *Tian, X. & Huber, D. E. (2013). Playing 'duck duck goose' with neurons: Change detection through connectivity reduction. *Psychological Science, 24*(6), 819-827. (supplementary material).

51. *Smith, K. A., Huber, D. E., & Vul, E. (2013). Multiply-constrained semantic search in the Remote Associates Test. *Cognition, 128,* 64-75.

2012

50. *Jang, Y., Wallsten, T. S., & Huber, D. E. (2012). A stochastic detection and retrieval model for the study of metacognition. *Psychological Review, 119*(1), 186-200. (supplemental material).

49. *Gupta, N., Jang, Y., Mednick, S. C., & Huber, D. E. (2012). The road not taken: Creative solutions require avoidance of high frequency responses. *Psychological Science, 23*(3)*,* 288-294*.* (supplementary material).

48. *Siegel, E., Dougherty, M. R., & Huber, D. E. (2012). Manipulating the need for cognitive control while taking the implicit association test. *Journal of Experimental Social Psychology, 48*, 1057-1068.

47. *Siegel, E., Sigall, H., & Huber, D. E. (2012). The IAT is sensitive to the perceived accuracy of newly learned associations. *European Journal of Social Psychology, 42,* 189-199.

46. *Jang, Y., Wixted, J. T., Pecher, D., Zeelenberg, R., & Huber, D. E. (2012). Decomposing the interaction between retention interval and study/test practice: The role of retrievability. *Quarterly Journal of Experimental Psychology, 65*(5), 962-975.

45. Winkielman, P., Huber, D. E., Kavanagh, L., & Schwarz, N. (2012). Fluency of consistency: When thoughts fit nicely and flow smoothly. In B. Gawronski & F. Strack (Eds.) *Cognitive consistency: A fundamental principle in social cognition.* New York: Guilford Press. 89-111.

2011

44. *Davelaar, E. J., Tian, X., Weidemann, C. T., & Huber, D. E. (2011). A habituation account of change detection in same/different judgments. *Cognitive, Affective, & Behavioral Neuroscience, 11,* 608-626. (supplementary material).

43. *Rieth, C. A., Lee, K., Liu, J., Tian, K., & Huber, D. E. (2011). Faces in the mist: Illusory face and letter detection. *i-Perception, 2,* 458-476.

42. *Jang, Y., Wixted, J. T., & Huber, D. E. (2011). The diagnosticity of individual data for model selection: Comparing signal-detection models of recognition memory. *Psychonomic Bulletin & Review, 18*, 751-757. (supplementary material).

41. *Tian, X., Poeppel, D., & Huber, D. E. (2011). TopoToolbox: Using sensor topography to calculate psychologically meaningful measures from event-related EEG/MEG. *Computational Intelligence and Neuroscience*. Article ID 674605, 8 pages.

40. Pecher, D., Boot, I., van Dantzig, S., Madden, C. J., Huber, D. E., & Zeelenberg, R. (2011). The sound of enemies and friends in the neighborhood: Phonology mediates activation of neighbor semantics. *Experimental Psychology*, *58*(6), 454-463.

39. Liu, J., Li, J., Rieth, C. A., Huber, D. E., Tian, J, & Lee, K,. (2011). A dynamic causal modeling analysis of the effective connectivities underlying top-down letter processing. *Neuropsychologia*, *49*(5), 1177-1186.

38. Winkielman, P., Huber, D. E., & Olszanowski, M. (2011). Dynamic connections: The role of processing fluency in affect and evaluation. In Blaszczak, W & Dolinski, D. (Eds.) *Dynamics of emotion: Theory and applications.* PWN. Warsaw. 60-87. [in Polish].

2010

37. Huber, D. E., Tomlinson, T. D., Rieth, C. A., & Davelaar, E. J. (2010). Reply to Bauml and Hanslmayr: Adding or subtracting memories? The neural correlates of learned interference versus memory inhibition. *Proceedings of the National Academy of Sciences, 107*(2), E4.

36. Huber, D. E. & Cowell, R. A. (2010). Theory driven modeling or model driven theorizing? Comment on McClelland et al/Griffiths et al. *Trends in Cognitive Sciences, 14(8),* 343-344.

35. *Rieth, C. A. & Huber, D. E. (2010). Priming and habituation for faces: Individual differences and inversion effects. *Journal of Experimental Psychology: Human Perception and Performance, 36,* 596-618.

34. *Tian, X. & Huber, D. E. (2010). Testing an associative account of semantic satiation. *Cognitive Psychology, 60*, 267-290.

33. *Irwin, K. R., Huber, D. E., & Winkielman, P. (2010). Automatic Affective Dynamics: An activation-habituation model of affective assimilation and contrast. In Nishida, T., Jain, L. C., & Faucher, C. (Eds.) *Modelling Machine Emotions for Realizing Intelligence: Foundations and Applications*. Springer Verlag. 17-34.

32. Pecher, D., Van Dantzig, S., Boot, I., Zanolie, K., & Huber, D. E. (2010). Congruency between word position and meaning is caused by task induced spatial attention. *Frontiers in Cognition, 1,* article 30, 8 pages.

31. Li, J., Liu, J., Liang, J., Zhang, H., Zhao, J., Rieth, C. A., Huber, D. E., Li, W., Shi, G., Ai, L., Tian, J., & Lee, K. (2010). Effective connectivities of cortical regions for top-down face processing: A dynamic causal modeling study. *Brain Research*, *1340*, 40-51.

30. Liu, J., Li, J., Liang, J., Zhang, H., Rieth, C. A., Huber, D. E., Lee, K, & Tian, J. (2010). Neural correlates of top-down letter processing. *Neuropsychologia*. 48, 636-641.

2009

29. *Tomlinson, T. D., Huber, D. E., Rieth, C. A., & Davelaar, E. J. (2009). An interference account of cue-independent forgetting in the no-think paradigm. *Proceedings of the National Academy of Sciences, 106,* 15588-15593. (supporting material).

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- Huber, D. E. (1999). Short-term repetition and associative priming: bias or perception? *24th Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- Huber, D. E. (1997). Entrainment as a model for visual adaptation and persistence. *30th Annual Meeting of the Society for Mathematical Psychology,* Indiana University, Bloomington, Indiana.
- Shiffrin, R. M. & Huber, D. E. (1992). A Dynamic Model for Trace Activation, *25th Annual Meeting of the Society for Mathematical Psychology,* Stanford University, Stanford, California.
- Willingham, D. B., Huber, D. E., Spear, J. L. & Gabrieli, J. D. E. (1991). Mirror Tracing is Learned via a Series of Direction-specific Associations, *33rd Annual meeting of the Psychonomic Society*, San Francisco, California.

Conference Posters (*advised student/postdoc first author)

- *McCarter, A., Huber, D. E., Cowell, R. A., & Starns, J. J. (2023). No Testing Effect for Meaningless Verbal Content. *64th Annual meeting of the Psychonomic Society*, San Francisco, California.
- *Savalia, T., Cohen, A. L., Cowell, R. A., & Huber, D. E. (2023). Reward changes are more disruptive than stimulus changes to implicit sequence learning of a community structure. *Context and Episodic Memory Symposium,* Walt Disney World, Florida.
- *Nikiforova, M., Winkielman, P., Huber, D. E., & Cowell, R. A. (2022). Uneasy on the Eyes: Unfamiliar Category Boundaries Do Not Restore Beauty in Averageness. *63rd Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- *McCarter, A., Huber, D. E., & Cowell, R. A. (2022). No evidence for a visual testing effect for novel, unnameable objects. *63rd Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- *De La Rosa-Rivera, N., M., Huber, D. E., & Cowell, R. A. (2022). Where Do I Remember This? Recognition Memory for Low-Level Visual Stimuli. *63rd Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- *De La Rosa-Rivera, N., M., Huber, D. E., & Cowell, R. A. (2022). Where Do I Remember This? Recognition Memory for Low-Level Visual Stimuli. *52nd Annual Meeting of the Society for Neuroscience.* San Diego, California.

- Huber, D. E., Sadil, P. S., & Cowell, R. A. (2022). The Push-pull of Serial Dependence Effects: Every Response is both an Attraction to the Prior Response and a Repulsion from the Prior Stimulus. Vision Sciences Society (VSS), St. Pete Beach, FL.
- *McCarter, A., Huber, D. E., & Cowell, R. A. (2022). No evidence for a visual testing effect for novel, unnameable objects. Context and Episodic Memory Symposium, Philadelphia, Pennsylvania.
- *Savalia, T., Huber, D. E., & Cowell, R. A. (2021). Implicit Learning in absence of explicit learning in a visuomotor adaptation task. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Nikiforova, M., Huber, D. E., & Cowell, R. A. (2021). Becoming aware of something that is not there: Illusory contours facilitate breakthrough from continuous flash suppression. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Sadil, P. S., Cowell, R. A., & Huber, D. E. (2020). The serial dependence effect is both attraction to the previous response and repulsion from the previous stimulus. *61st Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Savalia, T., Cowell, R. A., & Huber, D. E. (2020). Learning to Learn: Modeling the time-course of visuomotor adaptation. *53rd Annual Meeting of the Society for Mathematical Psychology,* Virtual Conference.
- Huber, D. E. & Huszar, L. D. ([2020](#)). A Unified Account of Repetition Blindness and the Attentional Blink. Virtual Vision Sciences Society (V-VSS). *Vision Sciences Society (VSS)*, Virtual Conference.
- *Savalia, T., Huber, D. E., & Cowell, R. A. (2019). Learning a Novel Perception-Action Mapping: Error Magnitude, Speed/Accuracy Emphasis, and Reinforcement Learning. *60th Annual meeting of the Psychonomic Society*, Montreal, Canada.
- *Nikiforova, M.., Cowell, R. A., & Huber, D. E. (2019). Is awareness necessary to process visual configurations? A continuous flash suppression study of Kanizsa squares. *60th Annual meeting of the Psychonomic Society*, Montreal, Canada.
- *Sadil, P. S., Cowell, R. A., & Huber, D. E. (2019). A hierarchical Bayesian state trace analysis for assessing monotonicity while factoring out subject, item, and trial level dependencies. *52nd Annual Meeting of the Society for Mathematical Psychology,* Montreal, Canada.
- *Jacob, L. P. L & Huber, D. E. (2019). Neural habituation enhances novelty detection: an EEG study of rapidly presented words. *49th Annual Meeting of the Society for Neuroscience*. Chicago, IL.
- *Hopper, W. J., Huber, D. E. (2019). Testing the Primary and Convergent Retrieval model of recall: Recall practice produces faster recall success but also faster recall failure. *Context and Episodic Memory Symposium,* Philadelphia, Pennsylvania.
- *Aenugu, S., Mehta, A., & Huber, D.E. (2019). Associative symmetry Redux: A Behavioral and Modeling Reanalysis of Paired-Associate Learning. *National Academy of Sciences Colloquia: Brain Produces Mind by Modeling*. Irvine, CA.
- Cowell, R. A, Sadil, P. S., & Huber, D. E. (2019). Using population receptive field mapping to address the 'vignetting' problem with voxel tuning methodology. *Fifth annual BRAIN Initiative Investigators Meeting*. Bethesda, MD.
- *Hopper, W. J. & Huber, D. E. (2018). Guided Convergent Retrieval Practice Enhances Object Recall. *59th Annual meeting of the Psychonomic Society*, New Orleans, LA.
- *Huszar, L. D., & Huber, D. E. (2018). Evidence that the Attention Blink Reflects Categorical Perceptual Dynamics. *Proceedings of the 40th Annual Conference of the Cognitive Science Society.* Madison, WI.
- Cowell, R. A., Sadil, P. S., Potter, K. W., & Huber, D. E. (2018). Implicit visual recollection: Connecting the dots without top-down knowledge. Vision Sciences Society (VSS), St. Pete Beach, FL. *Vision Sciences Society (VSS)*, St. Pete Beach, FL.
- Huber, D. E., Sadil, P. S., & Cowell, R. A. (2018). A hierarchical Bayesian model for inferring neural subpopulation tuning functions from fMRI data. *Fourth annual BRAIN Initiative Investigators Meeting*. Bethesda, MD.

- *Durbin, J. S. & Huber, D. E. (2017). Characterizing the visuospatial sketchpad: Rehearsal and retrieval in visual short-term memory. *58th Annual meeting of the Psychonomic Society*, Vancouver, British Columbia.
- *Jacob, H. P. L. & Huber, D. E. (2017). Neural habituation, novelty detection, and the visual perception of words: an ERP study. *47th Annual Meeting of the Society for Neuroscience*. Washington, D.C.
- Huber, D. E. & Solstad, T. (2017). A grid/place cell model of episodic memory and spatial navigation in the medial temporal lobe. *First Annual Conference on Cognitive Computational Neuroscience*, New York, NY.
- *Sadil, P., Huber, D. E., Serences, J. T., & Cowell, R. A. (2017). A novel method for fMRI analysis: Inferring neural mechanisms from voxel tuning. *First Annual Conference on Cognitive Computational Neuroscience*, New York, NY.
- *Jacob, H. P. L. & Huber, D. E. (2017). Separating one word from the next with neural habituation: An ERP study of perceptual decision making. *Context and Episodic Memory Symposium,* Philadelphia, Pennsylvania.
- *Huszar, L. D., Potter, K. W., & Huber, D. E. (2017). Retrieval induced forgetting does not cause forgetting of visual details. *Context and Episodic Memory Symposium,* Philadelphia, Pennsylvania.
- *Potter, K. W., Donkin, C., & Huber, D. E. (2016). Using Reaction Time Modeling of Forced-Choice and Same-Different Perceptual Decisions to Test a Race Model of Priming. 57th Annual meeting of the Psychonomic Society, Boston, Massachusetts.
- *Hopper, W. J. & Huber, D. E. (2016). The primary and convergent retrieval model of recall. 57th Annual meeting of the Psychonomic Society, Boston, Massachusetts.
- *Sadil, P. S., Huber, D. E., & Cowell, R. A. (2016). A Continuous Flash Suppression Study of Implicit Visual Recollection. 57th Annual meeting of the Psychonomic Society, Boston, Massachusetts.
- *Hopper, W. J. & Huber, D. E. (2016). The primary and convergent retrieval model of recall. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*.
- *Hopper, W. J. & Huber, D. E. (2015). The short-term cost of retrieval failure. *Context and Episodic Memory Symposium,* Philadelphia, Pennsylvania.
- Sadil, P. S., Huber, D. E., & Cowell, R. A. (2015). Visual recollection. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- *Hopper, W. J. & Huber, D. E. (2014). A Recovery Learning Account of the Testing Effect. *Context and Episodic Memory Symposium,* Philadelphia, Pennsylvania.
- *Hopper, W. J., Finklea, K. M., Winkielman, P., & Huber, D. E. (2013). A race and gender face space. *54th Annual meeting of the Psychonomic Society*, Toronto, Ontario.
- Cowell, R. A., Huber, D. E., & Serences, J. T. (2013). A novel method for fMRI analysis: Inferring neural mechanisms from voxel tuning. *Computational and Systems Neuroscience (COSYNE)*, Salt Lake City, Utah.
- *Smith, K. A., Olarano, M., Vul, E., & Huber, D. E. (2012). Beyond priming: Causes of sequential dependence in semantic production tasks. *53rd Annual meeting of the Psychonomic Society.* Minneapolis, Minnesota.
- Feng, L., Liu, J., Huber, D. E., Rieth, C. A., Li, L., Tian, J, & Lee, K. (2012). The neural correlates of illusory face perception: An fMRI study. *Vision Sciences Society (VSS)*, Naples, FL.
- *Smith, K. A., Huber, D. E., & Vul, E. (2011). Semantic search strategies in the Remote Associates Test. *52nd Annual meeting of the Psychonomic Society*, Seattle, Washington.
- *Rieth, C. A. & Huber, D. E. (2010). Transitions from positive to negative short-term word priming: Familiarity, directionality, and expectation. *51st Annual meeting of the Psychonomic Society*, St. Louis, Missouri.

- *Rieth, C. A. & Huber, D. E. (2010). Adaptation to the temporal statistics of spatial cueing. *Ninth Annual Summer Interdisciplinary Conference,* Bend, Oregon.
- Cowell, R. A., Huber, D. E., Cottrell, G. W., & Serences, J. T. (2010). Virtual multi-unit electrophysiology: Inferring neural response profiles from fMRI data. *Vision Sciences Society (VSS)*, Naples, FL
- *Irwin, K. R., & Huber, D. E. (2009). An habituation model of affective priming. *Fifth Annual Computational Cognitive Neuroscience Conference*, Boston, Massachusetts.
- *Jang, Y., Wixted, J. T., Huber, D. E., Pecher, D., & Zeelenberg, R. (2009). Is it better to cram or practice? The testing effect as a function of item difficulty. *50th Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- *Rieth, C. A., & Huber, D. E. (2009). Does inhibition of return (IOR) reflect environmental regularity? *50th Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- Cowell, R. A., Huber, D. E., & Cottrell, G. W. (2009). Virtual Brain Reading: A Connectionist Approach to Understanding fMRI. *Vision Sciences Society (VSS)*, Naples, FL.
- Cowell, R. A., Huber, D. E., & Cottrell, G. W. (2009). Virtual Brain Reading: A Connectionist Approach to Understanding fMRI. *Computational and Systems Neuroscience (COSYNE)*, Salt Lake City, Utah.
- *Jang, Y., & Huber, D. E. (2008). Mixed versus between list comparisons: The relationship between type I and type II confidence. *49th Annual meeting of the Psychonomic Society*, Chicago, IL.
- *Buck, C., & Huber, D. E. (2008). Testing the role of perception in the attention blink. *49th Annual meeting of the Psychonomic Society*, Chicago, IL.
- *Tian, X. & Huber, D. E. (2007). Measuring semantic satiation with a categorical matching task. *48th Annual meeting of the Psychonomic Society*, Long Beach, CA.
- *Jang, Y. & Huber, D. E. (2007). Recalling the List before the Last: Context Isolation, Context Retrieval, and Filtering Retrieved Memories. *48th Annual meeting of the Psychonomic Society*, Long Beach, CA.
- *Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2007). Effects of Prime Diagnosticity During Perceptual Identification: Strategies or Implicit Adaptation?. *48th Annual meeting of the Psychonomic Society*, Long Beach, CA.
- *Tian, X. & Huber, D. E. (2007). Geometric measures in electrophysiology: Spatial similarity and response magnitude. *40th Annual Meeting of the Society for Mathematical Psychology,* Irvine, California.
- *Buck, C., Davelaar, E. J., & Huber, D. E. (2007). Target priming effects in the Ericken flanker task. *40th Annual Meeting of the Society for Mathematical Psychology,* Irvine, California.
- *Rieth, C. A., Huber, D. E., Zhang, H., & Lee, K. (2007). Classification images from noise only trials: A comparison between face and letter detection. *40th Annual Meeting of the Society for Mathematical Psychology,* Irvine, California.
- *Siegel, E. F., Huber, D. E., & Sigall, H. (2007). Attitude not knowledge: Supporting the validity of the implicit association test. *Nineteenth Annual Association for Psychological Science Convention*, Washington, D.C.
- *Davelaar, E. J., & Huber, D. E. (2007). A perceptual adaptation account of preview effects in the Eriksen flanker task. *Second Annual European Cognitive Science Conference*, Delphi, Greece.
- *Rieth, C. A., & Huber, D. E. (2006). Individual differences in face processing as revealed with priming. *Second Annual Computational Cognitive Neuroscience Confernece*, Houston, Texas.
- *Jang, Y., Huber, D. E., & Wallsten, T. S. (2006). Judgments of learning (JOLs): Beyond gamma. *47th Annual meeting of the Psychonomic*, Houston, Texas.
- *Tomlinson, T. D., Huber, D. E., Rieth, C. A., & Davelaar, E. J. (2006). Retrieval inhibition or behavioral competition in the think/no-think paradigm?. *47th Annual meeting of the Psychonomic*, Houston, Texas.

- *Rieth, C. A., & Huber, D. E. (2006). Individual differences in face processing as revealed with priming. *Twenty Eighth Meeting of the Cognitive Science Society*, Vancouver, British Columbia.
- *Jang, Y. & Huber, D. E. (2006). Context Change and Interference in Episodic Memory. *Twenty Eighth Meeting of the Cognitive Science Society*, Vancouver, British Columbia.
- *Tian, X., Davelaar, E. J., Crowley, T., & Huber, D. E. (2006). Behavioral and Electrophysiological Tests of a Perceptual Account of Negative Priming. *Twenty Eighth Meeting of the Cognitive Science Society*, Vancouver, British Columbia.
- *Davelaar, E. J. & Huber, D. E. (2006). Preview Benefits and Deficits in Visual Selective Attention. *Twenty Eighth Meeting of the Cognitive Science Society*, Vancouver, British Columbia.
- *Davelaar, E. J., Tian, X., Weidemann, C. T., Crowley, T., & Huber, D. E. (2006). Perceptual and response effects in same-different judgements: a combined behavioural and MEG-study, *Thirteenth annual meeting of the Cognitive Neuroscience Society*, San Francisco, California.
- *Davelaar, E. J., Weidemann, C. T., & Huber, D. E. (2005). Examining negative and perceptual priming using a Go/NoGo same/different task. *46th Annual meeting of the Psychonomic Society*, Toronto, Ontario.
- *Tian, X., & Huber, D. E. (2005). A MEG study of immediate repetition priming. *Twelfth annual meeting of the Cognitive Neuroscience Society*, New York, NY.
- *Rieth, C., & Huber, D. E. (2005). Featural and configural dynamics in face identification. *Twelfth annual meeting of the Cognitive Neuroscience Society*, New York, NY.
- *Fazendeiro, T., Huber, D., Curran, T., & Winkielman, P. (2005). Fluency Flip Flops: Priming effects on false recognition reverse as a function of prime processing. Poster presented at the 5th annual meeting of Society for Personality and Social Psychology. New Orleans, Louisiana.
- Huber, D. E., Curran, T., O'Reilly, C, & Woroch, B. (2004). Measuring the dynamics of word perception with ERPs: Immediate repetition priming with different prime durations. *Eleventh annual meeting of the Cognitive Neuroscience Society*, San Francisco, California.
- *Fazendeiro, T., Huber, D. E., Curran, T., & Winkelieman, P. (2003). Perceptual fluency effects on episodic familiarity: Recognition bias changes with immediate repetition priming. *44th Annual meeting of the Psychonomic Society*, Vancouver, British Columbia.
- Huber, D. E., Curran, T., O'Reilly, C, & Woroch, B. (2003). Immediate repetition priming: Measuring synaptic depression with ERPs. *Twelfth annual Computational Neuroscience meeting*, Alicante, Spain.
- Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2002) Modeling the effects of prime duration and location in perceptual identification. *43rd Annual meeting of the Psychonomic Society*, Kansas City, Missouri.
- Huber, D. E., Curran, T., & O'Reilly, R. C. (2002). Discounting repeated words through synaptic depression: Using event-related potentials to measure the correlates of neural persistence and accommodation. *Ninth annual meeting of the Cognitive Neuroscience Society*, San Francisco, California.
- Mozer, M. C., Colagrosso, M. D., & Huber, D. H. (2002). A rational analysis of cognitive control in a speeded discrimination task. *Ninth annual meeting of the Cognitive Neuroscience Society*, San Francisco, California.
- Huber, D. E., & O'Reilly, R. C. (2001). Unbiased benefits and deficits in short-term repetition priming. *42nd Annual meeting of the Psychonomic Society*, Orlando, Florida.
- Huber, D. E., Shiffrin, R. M., Quach, R., & Lyle, K. B. (2000). Preference for prime-related words in short-term priming: the effects of target duration and prime similarity. *41th Annual meeting of the Psychonomic Society*, New Orleans, Louisiana.
- Norman, K. A., O'Reilly, R. C., & Huber, D. E. (2000). Modeling hippocampal and neocortical contributions to recognition memory. *Seventh annual meeting of the Cognitive Neuroscience Society*, San Francisco, California.