

## Curriculum Vitae

David E. Huber

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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 Massachusetts, Amherst, Department of Psychology, 2013-
- 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 2<sup>nd</sup> 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

- 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, Neuroscience and Behavior (co-advised)

##### Former PhD Students, year defended

- 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)

- 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 Sapru, 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, The Science of Seeing, 2020,2021
- Undergraduate, Statistics in Psychology, 2018
- Undergraduate, Introduction to Cognitive Psychology: 2000,2004,2006,2008,2013,2014(2),2016
- Undergraduate, Methods of Experimental Psychology: 1996,1998,2004(2),2009(2),2010(2),2011(2)

**University and Department Service**

- 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 (8<sup>th</sup> 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
  - *Institute of Education Sciences (IES), basic processes* (2015-2017)
  - Grant Study Section (2008): *Institute of Education Sciences (IES), basic processes*
  - Grant Study Section (2006): *AFOSR, Multidisciplinary University Research Initiative*
  - Grant Study Section (2006): *NIH, Cognition and Perception*
  - Grant Study Section (2005): *NIH, Special Emphasis Panel*
- Ad hoc grant reviewing
  - *National Science Foundation (NSF)*
  - *National, Institute of Health (NIH)*
  - *Air Force Office of Scientific Research (AFOSR)*
  - *Biotechnology and Biological Sciences Research Council (UK)*
  - *United States - Israel Binational Science Foundation*
- Conference submission reviewing
  - *Context and Episodic Memory Symposium, organizing committee* (2014-2017)
  - *Ad hoc reviews for Cognitive Science Conference Proceedings*
- Ad hoc journal reviewing

- *Acta Psychologica*
- *Advances in Cognitive Psychology*
- *American Journal of Psychology*
- *Attention, Perception, & Psychophysics*
- *Brain Research*
- *Canadian Journal of Experimental Psychology*
- *Collabra: Psychology*
- *Cognitive Psychology*
- *Cognitive Science: A Multidisciplinary Journal*
- *Consciousness and Cognition*
- *Cortex*
- *eLIFE*
- *Emotion*
- *Frontiers in Human Neuroscience*
- *Frontiers in Neuroscience*
- *Heliyon*
- *Journal of Experimental Psychology: General*
- *Journal of Experimental Psychology: Human Perception and Performance*
- *Journal of Experimental Psychology: Learning Memory & Cognition*
- *Journal of Cognitive Neuroscience*
- *Journal of Mathematical Psychology*
- *Journal of Memory & Language*
- *Journal of Personality and Social Psychology*
- *Mathematical Social Sciences*
- *Nature Communications*
- *Memory & Cognition*
- *Neural Information Processing Systems (NIPS)*
- *Neuroimage*
- *Neuroscience of Consciousness*
- *Neuropsychologia*
- *Open Mind: Discoveries in Cognitive Science*
- *Perception, & Psychophysics*
- *PLOS Computational Biology*
- *PLOS ONE*
- *Proceedings of the National Academy of Sciences (PNAS)*
- *Psychological Review*
- *Psychonomic Bulletin & Review*
- *Quarterly Journal of Experimental Psychology*
- *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 für Neuroinformatik, Ruhr-Universität 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)**

2022

- 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*. ([Supplementary Information](#)).
- 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.

- 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

- \*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.
- \*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*.

## 2020

- 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

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

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

- \*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.

- 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

- \*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

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

- \*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.
- \*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.
- 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

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

## 2012

- \*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](#)).
- \*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](#)).
- \*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.
- \*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.
- \*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.
- 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



- \*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](#)).
- \*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.
- \*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](#)).
- \*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.
- 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.
- 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.
- 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

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

- \*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](#)).
- \*Jang, Y., Wixted, J., & Huber, D. E. (2009). Testing signal-detection models of yes/no and two-alternative forced-choice recognition memory. *Journal of Experimental Psychology: General, 138*, 291-306.

- Li, J., Liu, J., Liang, J., Zhang, H., Zhao, J., Huber, D. E., Rieth, C. A., Lee, K., Tian, J., & Shi, G. (2009). A distributed neural system for top-down face processing. *Neuroscience Letters*, 451, 6-10.
- Cowell, R. A., Huber, D. E., & Cottrell, G. W. (2009). Virtual Brain Reading: A Connectionist Approach to Understanding fMRI. *Proceedings of the 31st Annual Conference of the Cognitive Science Society*. [32% acceptance rate]. 212-217.
- Winkielman, P. & Huber, D. E. (2009). Dynamics and evaluation: The warm glow of processing fluency. In Meyers, R. A. (Ed.), *Encyclopedia of Complexity and Systems Science*. New York: Springer Verlag. Part 4, 2242-2253.

## 2008

- Huber, D. E. (2008). Immediate Priming and Cognitive Aftereffects. *Journal of Experimental Psychology: General*, 137, 324-347.
- Huber, D. E., Clark, T. F., Curran, T., & Winkielman, P. (2008). Effects of repetition priming on recognition memory: Testing a perceptual fluency-disfluency model. *Journal of Experimental Psychology: Learning Memory and Cognition*, 34, 1305-1324.
- Huber, D. E., Tian, X., Curran, T., O'Reilly, C., & Woroch, B. (2008). The dynamics of integration and separation: ERP, MEG, and neural network studies of immediate repetition effects. *Journal of Experimental Psychology: Human Perception and Performance*, 34(6), 1389-1416.
- Huber, D. E. (2008). Causality in time: Explaining away the future and the past. In M. Oaksford and N. Chater (Eds.). *The probabilistic mind: Prospects for rational models of cognition*. Oxford, UK: Oxford University Press. 351-376.
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## 2006

- Huber, D. E. (2006). Computer simulations of the ROUSE model: an analytic method and generally applicable techniques for producing parameter confidence intervals. *Behavior Research Methods*, 38, 557-568.

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- \*Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2005). Confusion and compensation in visual perception: Effects of spatiotemporal proximity and selective attention. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 40-61.
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## 2004

- Huber, D. E. & Cousineau, D. (2004). A race model of perceptual forced choice reaction time. In R. Alterman & D. Kirsh (Eds.), *Proceedings of the 25th Annual Conference of the Cognitive Science Society*. (pp 593-598). Hillsdale, NJ: Erlbaum Associates. [24% acceptance rate].

## 2003

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### 2002

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### 2001

- Huber, D. E., Shiffrin, R. M., Lyle, K. B., & Ruys, K. I. (2001). Perception and preference in short-term word priming. *Psychological Review*, 108(1), 149-182.

### 2000 and earlier

- Huber, D. E. (2000). Perception and preference in short-term word priming. Unpublished doctoral dissertation, Indiana University, Bloomington.
- Huber, D. E. (1998). The development of synchrony between oscillating neurons. *Proceedings of the 20th Annual Conference of the Cognitive Science Society*, (502-507). Hillsdale, NJ: Erlbaum Associates. [acceptance rate not available].
- Shiffrin, R. M., Huber, D. E., & Marinelli, K. (1995). Effects of category length and strength on familiarity in recognition. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, Vol. 21, No. 2, 267-287.
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### **Technical Reports**

- Huber, D. E., Shiffrin, R. M., Lyle, K. B., & Ruys, K. I. (1999). Perception and preference in short-term word priming. Technical Report #237, Indiana University, Cognitive Science Program.
- Shiffrin, R. M., Huber, D. E., & Marinelli, K. (1993). Effects of Length and Strength on Familiarity in Recognition. Technical Report #94, Indiana University, Cognitive Science Program.

### **Conference Presentations (\*advised student/postdoc first author)**

- Huber, D. E., Nikiforova, M., & Cowell, R. A. (2022). Gestalt Formation Promotes Awareness of Suppressed Visual Stimuli During Binocular Rivalry. *63rd Annual meeting of the Psychonomic Society*, Boston, Massachusetts.

- \*Savalia, T., Cowell, R. A., & Huber, D. E. (2022). "Leap Before You Look": Conditions That Promote Implicit Visuomotor Adaptation Without Explicit Learning.. *63rd Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- \*Sadil, P. S., Cowell, R. A., & Huber, D. E. (2021). The Push-pull of Serial Dependence Effects: Every Response is both an Attraction to the Prior Response and a Repulsion from the Prior Stimulus. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- \*Jacob, L. P. L & Huber, D. E. (2020). A Neural Habituation Account of the Negative Compatibility Effect. *61st Annual meeting of the Psychonomic Society*, Virtual Conference.
- \*Jacobs, C. L., Huber, D. E. (2020). The Lexical Context Model of memory for words in lists. *Context and Episodic Memory Symposium*, Virtual Conference.
- \*Huszar, L. D. A., & Huber, D. E. (2019). A unified account of repetition blindness and the attentional blink. *60th Annual meeting of the Psychonomic Society*, Montreal, Canada.
- \*Jacobs, C. L., Huber, D. E. (2019). The Lexical Context Model: A continuous bag of words model of semantic and episodic memory. *MathPsych Psychonomics Pre-Conference*, Montreal, Canada.
- \*Huszar, L. D. A., & Huber, D. E. (2019). A unified account of repetition blindness and the attentional blink. *52nd Annual Meeting of the Society for Mathematical Psychology*, Montreal, Canada.
- Cowell, R. A., Sadil, P. S., & Huber, D. E. (2019). Bayesian modeling of fMRI data to infer modulation of neural tuning functions in visual cortex. *Vision Sciences Society (VSS)*, St. Pete Beach, FL.
- \*Hopper, W. J. & Huber, D. E. (2019). Testing the Primary and Convergent Retrieval Model of recall: Retrieval Practice Produces Faster Recall Success but also Faster Recall Failure. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, New Brunswick, New Jersey.
- \*Hopper, W. J. & Huber, D. E. (2018). Testing the PCR Model of Recall: Retrieval Practice Produces Faster Recall Success but also Faster Recall Failure. *59th Annual meeting of the Psychonomic Society*, New Orleans, LA.
- Huber, D. E., Sadil, P. S., & Cowell, R. A. (2018). A hierarchical Bayesian model for inferring neural subpopulation tuning functions from fMRI data. *51st Annual Meeting of the Society for Mathematical Psychology*, Madison, WI.
- \*Sadil, P. S., Huber, D. E., Serences, J. T., & Cowell, R. A. (2018). A hierarchical Bayesian model for inferring neural tuning functions from voxel tuning functions. *Vision Sciences Society (VSS)*, St. Pete Beach, FL.
- \*Sadil, P. S., Huber, D. E., & Cowell, R. A. (2018). Episodic-like retrieval mechanisms for non-episodic memories: Visual recollection in the absence of identification. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- \*Hopper, W. J., Huber, D. E. (2018). Guided convergent retrieval practice enhances feature-cued object recall. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- Huber, D. E. & Solstad, T. (2017). Episodic Memory and Spatial Navigation in the Medial Temporal Lobe. *50th Annual Meeting of the Society for Mathematical Psychology*, University of Warwick, UK.
- \*Sadil, P. S., Potter, K. W., Huber, D. E., & Cowell, R. A. (2017). A hierarchical Bayesian approach to state trace analysis with application to implicit visual memory. *50th Annual Meeting of the Society for Mathematical Psychology*, University of Warwick, UK.
- \*Sadil, P. S., Potter, K. W., Huber, D. E., & Cowell, R. A. (2017). A continuous flash suppression study of implicit visual recollection. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- Potter, K. W., Donkin, C., & Huber, D. E. (2017). Testing a perceptual fluency/disfluency model of priming with a model of response time and choice. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, Nashville, TN.

- Winkielman, P. Carr, E., Pecher, D., Zeelenberg, R., Halbertstadt, J., & Huber, D. E. (2017). Flipping facial preferences: Memory differentiation shapes familiarity and valence. *18<sup>th</sup> General Meeting of the European Association of Social Psychology*, Granada, Spain.
- \*Rusconi, P. & Huber, D. E. (2016). A perceptual habituation account of the attentional blink. *57th Annual meeting of the Psychonomic Society*, Boston, Massachusetts.
- \*Hopper, W. J., Huber, D. E. (2016). The primary and convergent retrieval model of recall. *49th Annual Meeting of the Society for Mathematical Psychology*, New Brunswick, New Jersey.
- \*Potter, K. W. & Huber, D. E. (2016). Using reaction time modeling of forced-choice and same-different perceptual decisions to test a race model of priming. *49th Annual Meeting of the Society for Mathematical Psychology*, New Brunswick, New Jersey.
- Huber, D. E. & Solstad, T. (2016). Episodic Memory and Spatial Navigation in the Medial Temporal Lobe. *Fifteenth Annual Summer Interdisciplinary Conference*, Selva, Italy.
- \*Potter, K. W. & Huber, D. E. (2016). Cortical pattern suppression does not cause forgetting. *Festschrift for Jeroen, G. W. Raaijmakers*, Amsterdam, The Netherlands.
- \*Hopper, W. J., Huber, D. E. (2016). The primary and convergent retrieval model of recall. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- Rusconi, P. & Huber, D. E. (2016). A perceptual habituation account of the attentional blink. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, New York, NY.
- \*Hopper, W. J. & Huber, D. E. (2015). Testing a novel theoretical account of the testing effect: Successful retrieval practice reduces tip-of-the-tongue. *56th Annual meeting of the Psychonomic Society*, Chicago, Illinois.
- Huber, D. E. & Potter, K. W. (2015). Does learning or unlearning cause forgetting? *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- Huber, D. E. & Solstad, T. (2014). A Memory Model of Grid Cell Responses. *Context and Episodic Memory Symposium*, Philadelphia, Pennsylvania.
- \*Rieth, C. A. & Huber, D. E. (2013). Item effects in perceptual identification word priming. *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. *Vision Sciences Society (VSS)*, Naples, FL.
- \*Nelson, A. B. & Huber, D. E. (2012). Disillusions of memory: Estimating the contributions of perceptual priming and memory priming to primed recognition. *53rd Annual meeting of the Psychonomic Society*. Minneapolis, Minnesota.
- \*Jang, Y. & Huber, D. E. (2012). A comparison between nested modeling of group data and unconstrained fits of individuals with the stochastic detection and retrieval model. *Festschrift for Thomas S. Wallsten*. College Park, Maryland.
- Huber, D. E. (2012). How the Rich get Poorer: Change detection through connectivity loss. *Festschrift for Richard M. Shiffrin*. Bloomington, Indiana.
- \*Jang, Y., Wallsten, T. S., & Huber, D. E. (2011). A stochastic detection and retrieval model for the study of metacognition. *52nd Annual meeting of the Psychonomic Society*, Seattle, Washington.
- \*Jang, Y., Wixted, J. T., & Huber, D. E. (2011). Using test format, model recovery, and model selection applied to each individual to compare models of recognition memory. *The Fifth International Conference on Memory*, York, England.
- \*Rieth, C. A. & Huber, D. E. (2011). Transitions from positive to negative short-term word priming: Familiarity, directionality, and expectation. *Tenth Annual Summer Interdisciplinary Conference*, Boi Valley, Pyrenees, Spain.
- \*Rieth, C. A. & Huber, D. E. (2011). Adaptation to the temporal statistics of spatial cueing. *36th Annual Interdisciplinary Conference*, Jackson, Wyoming.
- \*Rieth, C. A. & Huber, D. E. (2010). Adaptation to the temporal statistics of spatial cueing. *51st Annual meeting of the Psychonomic Society*, St. Louis, Missouri.

- Zeelenberg, R., Jang, Y., & Huber, D. E. (2010). Enhanced recognition memory for taboo words in a two-alternative forced choice paradigm. *51st Annual meeting of the Psychonomic Society*, St. Louis, Missouri.
- \*Tomlinson, T. D. & Huber, D. E. (2010). Learning to Forget: An Interference Account of Cue-Independent Forgetting. *43rd Annual Meeting of the Society for Mathematical Psychology*, Portland, Oregon.
- \*Gupta, N., Mednick, S. C., Jang, Y., & Huber, D. E. (2010). The road not taken: Performance on the Remote Associates Test is best when word frequency is ignored. *Ninth Annual Summer Interdisciplinary Conference*, Bend, Oregon.
- Cowell, R. A., Huber, D. E., & Serences, J. T. (2010). Virtual multi-unit recording: Inferring neural response profiles from fMRI data. *Ninth Annual Summer Interdisciplinary Conference*, Bend, Oregon.
- \*Jang, Y., Huber, D. E., & Pashler, H. (2009). The role of answer familiarity in the multiple-choice testing effect. *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. *Eighth Annual Summer Interdisciplinary Conference*, Sarre, Valle d'Aosta, Italy.
- \*Tian, X. & Huber, D. E. (2009). Behavioral and electrophysiological studies of semantic satiation. *Eighth Annual Summer Interdisciplinary Conference*, Sarre, Valle d'Aosta, Italy.
- Winkielman, P., Halberstadt, J., & Huber, D. E. (2009). Manipulating Fluency and Attractiveness With Priming and Categorization. *21st Annual Convention of the Association for Psychological Science*. San Francisco, CA.
- \*Jang, Y., Huber, D. E., & Wallsten T. S. (2009). A stochastic detection and retrieval model and its application to judgments of learning. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, Boulder, Colorado.
- \*Tian, X., & Huber, D. E. (2009). Behavioral and electrophysiological studies of semantic satiation. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, Boulder, Colorado.
- \*Finklea, K. M., Huber, D. E., & McKenzie, C. R. (2009). Investigating Inappropriate Cue Utilization in the Own-Race Bias. *34th Annual Interdisciplinary Conference*, Jackson, Wyoming.
- \*Jang, Y., Wixted, J. T., & Huber, D. E. (2009). Testing signal-detection models of yes/no and two-alternative forced-choice recognition memory. *Context and Episodic Memory Symposium*, Palm Beach, Florida.
- \*Tian, X., & Huber, D. E. (2008). Behavioral and electrophysiological studies of semantic satiation. *49th Annual meeting of the Psychonomic Society*, Chicago, IL.
- \*Tomlinson, T. D., Huber, D. E., Rieth, C. A., & Davelaar, E. J. (2008). An Interference account of Cue-Independent Forgetting in the No-Think Paradigm. *Seventh Annual Summer Interdisciplinary Conference*, Madonna di Campiglio, Italy.
- Mednick, S.C., Reith, C., Cai, D., Huber, D. E., Kanady, J., Horowitz, T. (2008). Separating specific from general learning in a napping paradigm on a Rotary Pursuit task. *Annual Conference of the Vision Sciences Society (VSS)*, Naples, Florida.
- \*Rieth, C. A. & Huber, D. E. (2008). Humans in the mist: Measuring top-down face perception with noise only classification images. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, Bloomington, Indiana
- Huber, D. E., Tian, X., Curran, T., O'Reilly, C., & Woroch, B. (2008). Constraining ERP source estimation with a formal model of perceptual temporal dynamics. *Perceptual Expertise Network (PEN) Workshop XVI*, Banff, Alberta, Canada.
- \*Finklea, K., Huber, D. E., & McKenzie, C. R. (2008). Perceptual Differences in the Own Race Bias: A Multidimensional Scaling Analysis. *Western Psychological Association Annual Conference*, Irvine, CA.

- \*Finklea, K., Huber, D. E., & McKenzie, C. R. (2008). Perceptual Differences in the Own Race Bias: A Multidimensional Scaling Analysis. *American Psychology-Law Society Annual Conference*, Jacksonville, FL.
- \*Jang, Y. & Huber, D. E. (2008). Context retrieval and context change in free recall: Recalling from long-term memory drives list isolation. *Context and Episodic Memory Symposium*, Tampa, Florida.
- \*Davelaar, E. J., Tomlinson, T., Rieth, C. A., Huber, D. E. (2008). A response interference account of forgetting in the no-think paradigm. *Context and Episodic Memory Symposium*, Tampa, Florida.
- \*Jang, Y. Huber, D. E., & Wallsten, T. S. (2008). Improving judgments of learning: Better retrieval explains the testing-JOL effect but better judgments explains the delayed-JOL effect. *Context and Episodic Memory Symposium*, Tampa, Florida.
- Huber, D. E., Fazendeiro, T., Curran, T., & Winkielman, P. (2007). Perceptual disfluency effects in recognition memory. *48th Annual meeting of the Psychonomic Society*, Long Beach, CA.
- \*Jang, Y., Wixted, J. T., Huber, D. E. (2007). The Relationship Between Old/New and Forced-Choice Recognition Memory Performance.. *48th Annual meeting of the Psychonomic Society*, Long Beach, CA.
- \*Jang, Y., Huber, D. E., & Wallsten T. S. (2007). A stochastic judgment model of recall: Separating measurement, memory, and correlation. *40th Annual Meeting of the Society for Mathematical Psychology*, Irvine, California.
- \*Jang, Y., Wixted, J. T., Huber, D. E. (2007). Testing the unequal-variance, dual-process, and mixture signal-detection models in yes/no and two-alternative forced-choice recognition. *40th Annual Meeting of the Society for Mathematical Psychology Meeting*, Irvine, California.
- \*Jang, Y., Huber, D. E., & Wallsten T. S. (2007). A stochastic judgment model of recall: Separating measurement, memory, and correlation. *Sixth Annual Summer Interdisciplinary Conference*, Kalymnos, Greece.
- \*Weidemann, C., Huber, D. E., & Shiffrin, R. M. (2007). How predictive information affects object identification. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, Storrs, Connecticut
- \*Weidemann, C., Huber, D. E., & Shiffrin, R. M. (2007). How predictive information affects object identification. *32nd Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- \*Davelaar, E. J. & Huber, D. E. (2006). Preview benefits and deficits in the Eriksen flanker task. *47th Annual meeting of the Psychonomic Society*, Houston, Texas.
- \*Jang, Y., Huber, D. E., & Wallsten T. S. (2006). Stochastic Models of Judgments of Learning. *39th Annual Meeting of the Society for Mathematical Psychology*, Vancouver, British Columbia.
- Huber, D. E. (2006). A factorial hidden markov model of perception and working memory. *39th Annual Meeting of the Society for Mathematical Psychology*, Vancouver, British Columbia.
- \*Davelaar, E. J. & Huber, D. E. (2006). Preview benefits in visual selective attention: "Hang-on-a-second!". *Fifth Annual Summer Interdisciplinary Conference*, Andalsnes, Norway.
- \*Rieth, C. A., & Huber, D. E. (2006). Individual Differences in Face Processing as Revealed with Priming. *Fifth Annual Summer Interdisciplinary Conference*, Andalsnes, Norway.
- Huber, D. E., & Jang, Y. (2006). Retroactive interference and context change in episodic free recall. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, La Jolla, California.
- Huber, D. E., Jang, Y., & Van Overschelde, J. P., (2005). Using sampling and recovery to estimate context and item effects in memory. *46th Annual meeting of the Psychonomic Society*, Toronto, Ontario.
- \*Jang, Y., & Huber, D. E. (2005). Memory Cueing and Context Discrimination in Recall and Recognition. *38th Annual Meeting of the Society for Mathematical Psychology Meeting*, Memphis, Tennessee.

- Huber, D. E., Van Overschelde, J. P., & Jang, Y. (2005). Separating context and item effects in episodic memory with descriptive SAM modeling. *Fourth Annual Summer Interdisciplinary Conference*, Briancon, France.
- Huber, D. E., Van Overschelde, J. P., & Jang, Y. (2005). Context and item interference in episodic memory: Deriving sampling and recovery measures from recall and recognition data. *Context and Episodic Memory Symposium*, Philadelphia, New Jersey.
- Huber, D. E. (2004). The time-course of identification and suppression: Immediate repetition priming of words and faces. *45th Annual meeting of the Psychonomic Society*, Minneapolis, Minnesota.
- Huber, D. E. (2004). Electrophysiological measures of repetition priming. *Third Annual Summer Interdisciplinary Conference*, Cavalese, Val di Fiemme, Dolomiti, Italy.
- Huber, D. E., & O'Reilly, R. C. (2003). Establishing a Correspondence Between Activity Dependent Neural Dynamics and Inference in a Generative Model of Perceptual Identification. *28th Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- Huber, D. E., Curran, T., & O'Reilly, R. C. (2002). Temporally segregating written words through synaptic depression: The electrophysiological correlates of neural persistence and neural accommodation. *First Annual Summer Interdisciplinary Conference*, Squamish, British Columbia, Canada.
- \*Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2002) Modeling the effects of prime duration and location in perceptual identification. *35th Annual Meeting of the Society for Mathematical Psychology*, Miami University, Oxford, Ohio.
- \*Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2002) Modeling the effects of prime duration and location in perceptual identification. *First Annual Summer Interdisciplinary Conference*, Squamish, British Columbia, Canada.
- \*Weidemann, C. T., Huber, D. E., Shiffrin, R. M. (2002) Modeling the effects of prime duration and location in perceptual identification. *33<sup>rd</sup> European Conference on Mathematical Psychology*, International University Bremen, Bremen, Germany.
- Huber, D. E., & O'Reilly, R. C. (2002). How is the brain able to identify items with minimal interference from prior presentations? *27th Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- Mozer, M. C., Colagrosso, M. D., & Huber, D. H. (2001). A rational analysis of cognitive control in a speeded discrimination task. *42nd Annual meeting of the Psychonomic Society*, Orlando, Florida.
- Huber, D. E. (2001). Source confusion and discounting in short-term word priming: Feature-based versus word-based accounts. *26th Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- 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.
- Mozer, M. C., Huber, D. E., & Colagrosso, M. (2000). A Bayesian cognitive architecture for interpreting long-term priming phenomena. *41th Annual meeting of the Psychonomic Society*, New Orleans, Louisiana.
- Huber, D. E., & Shiffrin, R. M. (2000). ROUSE: A Bayesian model for short-term priming of threshold identification. *33rd Annual Meeting of the Society for Mathematical Psychology Meeting*, Queens University, Kingston, Ontario, Canada.
- Huber, D. E., O'Reilly, R. C., & Norman, K. A. (2000). Understanding memory strengthening in a model of neocortex: The deepening and sharpening of item attractors. *Fourth International Conference on Cognitive and Neural Systems*, Boston University, Boston, Massachusetts.
- Mozer, M. C., Colagrosso, M., & Huber, D. E. (2000). Temporal dynamics of information transmission in cognitive systems. *Fourth International Conference on Cognitive and Neural Systems*, Boston University, Boston, Massachusetts.



- Huber, D. E. (2000). Removing irrelevant information in short-term priming. *25th Annual Interdisciplinary Conference*, Teton Village, Jackson Hole, Wyoming.
- Huber, D. E., Lyle, K. B., & Shiffrin, R. M. (1999). Short-term priming: data and a model for bias and interference *40th Annual meeting of the Psychonomic Society*, Los Angeles, California.
- Huber, D. E., Lyle, K. B., & Shiffrin, R. M. (1999). Short-term priming: data and a model for bias and interference. *32nd Annual Meeting of the Society for Mathematical Psychology*, Santa Cruz, California.
- 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)

- \*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 Conference*, 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.