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MINDSPACE LABORATORY
DEPARTMENT OF COGNITIVE SCIENCES ♦ DEPARTMENT OF LANGUAGE SCIENCE
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PERSONAL STATEMENT

I have had a lifelong interest in disease and the brain. To foster a career spanning both these interests, I completed a dual degree M.D./Ph.D. program at Stanford University to become a physician-scientist. During my graduate training in Neurosciences at the top program in the country, I discovered and characterized three new visual areas in the human brain (e.g., *Brewer et al.*, *Nature Neuroscience* 2005), made the first visual field map measurements with fMRI in macaque cortex (*Brewer et al.*, *Journal of Neuroscience* 2002), and developed the proposal of visual field map clusters as a fundamental, organizing principle of human visual cortex (e.g., *Brewer et al.*, *Nature Neuroscience* 2005; Wandell, *Brewer*, Dougherty, *Phil Trans Roy Soc* 2005; Wandell, Dumoulin, *Brewer*, *Neuron* 2007). I was also an instrumental member on several collaborative projects that characterized the variability of visual field maps in human posterior occipital cortex (Dougherty, Koch, *Brewer*, et al., *Journal of Vision* 2003) and investigated developmental plasticity in human rod monochromats (Baseler, *Brewer et al.*, *Nature Neuroscience* 2002), cortical plasticity induced by retinal lesions in adult macaque (Smirnakis, *Brewer et al.*, *Nature* 2005), and sight-recovery in adult human (Fine, Wade, *Brewer*, et al., *Nature Neuroscience* 2003). During my postdoctoral work at Stanford, I received training in diffusion tensor imaging (DTI) through a project investigating white matter changes in temporal lobe epilepsy and collaborated on a project using DTI to measure the inter-hemispheric connectivity of human primary visual cortex (Dougherty, Ben-Shachar, Bammer, *Brewer*, Wandell, *PNAS* 2005). To complement my neuroscience graduate and postdoctoral training, I simultaneously completed medical school with a concentration of clinical experiences in neurology and neurosurgery.

In my current position as an Associate Professor at the University of California, Irvine, I am pursuing several lines of research arising from this training. My lab currently focuses on visual, auditory, pain, and multi-sensory neuroscience, using behavioral, genetic, and high-resolution, computational neuroimaging techniques to investigate questions ranging from the fundamental organization of human visual, auditory, and somatosensory cortex, to plasticity in visual, auditory, and sensorimotor regions, to genetic and neuromodulatory effects on behavior.

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BIOGRAPHICAL INFORMATION

EDUCATION

9/1997 – 6/2007	Stanford University School of Medicine	M.D.
3/2000 – 9/2005	Stanford University Neurosciences Graduate Program <ul style="list-style-type: none"> ◆ Dissertation: <i>Visual field map properties and plasticity in human and macaque cortex</i> ◆ Thesis Committee: Brian A. Wandell, Ph.D. (Advisor); William T. Mobley, M.D., Ph.D. (Chair); William C. Newsome, Ph.D.; Kalanit Grill-Spector, Ph.D.; Eric I. Knudsen, Ph.D. 	Ph.D.
6/1993 – 8/1993	University of California, Irvine <ul style="list-style-type: none"> ◆ Summer Session: Intensive physics program (lectures & labs) 	
9/1991 – 6/1996	Stanford University – Biological Sciences (Neurobiology focus) <ul style="list-style-type: none"> ◆ Departmental Honors in the Biological Sciences Honors Thesis: <i>The role of the laterodorsal tegmentum in the induction and maintenance of REM sleep in freely-behaving rats</i>. Advisors: Craig C. Heller, Ph.D.; Dennis Grahn, Ph.D. 	B.S.H.
9/1991 – 6/1996	Stanford University – Comparative Literature (Literary & linguistic analysis of English, German, & Latin literatures) <ul style="list-style-type: none"> ◆ Interdisciplinary Honors in the Humanities Honors Thesis: <i>The emergence of order and meaning from selected dynamic texts of Gertrude Stein</i>. Advisors: Marjorie Perloff, Ph.D.; Herbert Lindenberger, Ph.D. 	B.A., I.Hn.
9/1990 – 6/1991	University of California, Irvine - Biology <ul style="list-style-type: none"> ◆ University Program for Honors High School Scholars: <i>Early college entrance program for advanced students during senior year of high school</i> ◆ Courses: 1) Astronomy; 2) Brain and Behavior 	

POSITIONS AND EMPLOYMENT

2016 – present	Associate Professor by courtesy, Department of Language Science, University of California, Irvine
2015 – present	Associate Professor, Department of Cognitive Sciences, University of California, Irvine
2007 – 2015	Assistant Professor, Department of Cognitive Sciences, University of California, Irvine
2005 – 2007	Postdoctoral Research Associate, Department of Psychology, Stanford University
2002	Graduate Teaching Assistant, Department of Psychology, Stanford University
2000 – 2001	Scientific Writing Tutor, Department of Biological Sciences, Stanford University

- 1999 – 2005 Graduate Research Assistant / Graduate Student, Neurosciences Program and Department of Psychology, Stanford University
- 1999 Graduate Research Assistant, Department of Neurology, Stanford University School of Medicine & AGY Therapeutics
- 1998 – 2001 The Honors Biology Writing Tutor for Honors Biology Thesis Writers, Department of Biological Sciences, Stanford University
- 1998 Graduate Teaching Assistant, Department of Surgery, Stanford University School of Medicine
- 1998 Medical Scholar, Department of Vascular Surgery and Biomechanical Engineering, Stanford University School of Medicine
- 1997 – 2001 Course Coordinator, Department of Biological Sciences, Stanford University
- 1996 – 1997 Project Assistant, The Smith-Kettlewell Eye Research Institute, San Francisco, CA
- 1995 – 1996 Research Assistant, Department of Biological Sciences, Stanford University
- 1994 – 1996 Researcher, Department of Comparative Literature, Stanford University
- 1993 – 1994 Research Assistant, Department of Radiation Oncology, Stanford University School of Medicine
- 1993 – 1996 Course Assistant, Department of Biological Sciences, Stanford University

ACADEMIC AND PROFESSIONAL HONORS

- 2020 Spring 2020 Outstanding Teaching Award – School of Social Sciences
During emergency distance learning with Covid-19, ranked among the top 15% of all courses taught in the School as judged by the teaching effectiveness score
- 2018 “IntechOpen Women in Science 2018” Book Collection Initiative
Awarded position of Academic Editor for the ‘IntechOpen Women in Science’ Book Collective Initiative; 10 books chosen out of 288 international proposals. Sole editor from USA. (London, U.K.; IntechOpen).
- 2015 2014 – 2015 The Dean's Award for Outstanding Undergraduate Teaching, School of Social Sciences, University of California, Irvine
The Dean's awards recognizes one outstanding undergraduate teacher for a commitment to inclusive excellence in teaching and dedication to higher education.
- 2014 2013-2014 Social Sciences Assistant Professor Research Award, University of California, Irvine
‘Audiovisual Processing: fMRI investigations into the relationships among human visual and auditory field maps.’
- 2012 – 2013 National Institutes of Health Loan Repayment Program Scholar
‘Visual rehabilitation after stroke.’

- 2012 2011-2012 Social Sciences Assistant Professor Research Award, University of California, Irvine
'Visual rehabilitation after stroke through perceptual learning paradigms: harnessing cortical plasticity for therapeutic interventions.'
- 2010 – 2012 National Institutes of Health Loan Repayment Program Scholar
'The dorsal visual stream: Visual field maps and functional plasticity.'
- 2010 2009-2010 Social Sciences Assistant Professor Research Award, University of California, Irvine
'Visual working memory in the human dorsal stream.'
- 2008 – 2010 National Institutes of Health Loan Repayment Program Scholar
'Neuroimaging of human visual cortex in Posterior Cortical Atrophy and Alzheimer's disease.'
- 2006 American Medical Association (AMA) Seed Grant Fellow
'Post-ictal and inter-ictal diffusion tensor imaging in patients with temporal lobe epilepsy.'
- 2002-2006 National Institutes of Health M.D./Ph.D. Pre-doctoral NRSA Fellow
'Human ventral occipito-temporal cortex.'
- 2002 First Place Poster: Stanford Medical Student Research Symposium, Stanford University
'Reorganization of human cortical maps caused by photoreceptor abnormalities'
- 1998 Biological Sciences Excellence in Teaching Award, Stanford University
Course Coordinator, Biology 44 – Undergraduate Biological Sciences Laboratory Core Course Series, Stanford University
- 1998 Gerbode Scholar, Stanford University School of Medicine
'Quantitative assessment of human aortic blood flow in age-matched atherosclerotic and non-atherosclerotic subjects during moderate exercise in a 1.5T magnet.'
- 1996 Departmental Honors in the Biological Sciences, Stanford University
'The role of the laterodorsal tegmentum in the induction and maintenance of REM sleep in freely-behaving rats.'
- 1996 Interdisciplinary Honors in the Humanities, Department of Comparative Literature, Stanford University
'The emergence of order and meaning from selected dynamic texts of Gertrude Stein' - An application of chaos theory to the investigation of the development of order and the creation of meaning in prose and poetry selections by Gertrude Stein.
- 1996 Biological Sciences Laura Weinstein Teaching Award and Grant, Stanford University
Awarded to the top undergraduate teaching assistant (\$1,965)
- 1995 Biological Sciences Excellence in Teaching Award, Stanford University
Course Assistant, Biology 44 – Undergraduate Biological Sciences Laboratory Core Course Series, Stanford University
- 1995 Howard Hughes Medical Institute Summer Fellow, Stanford University
'The role of the laterodorsal tegmentum in the induction and maintenance of REM sleep in freely-behaving rats.'

1991 National Merit Scholar Finalist
 1991 National AP Scholar

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RESEARCH ACTIVITIES

GRANT AWARDS, FELLOWSHIPS, AND CONSULTING

(10/22/2020: **\$1,265,660** since start of career; **\$1,151,513** since hired at UCI)

In prep	National Science Foundation (NSF), Cognitive Neuroscience. <i>'Tracking Plasticity in Human Visual Cortex through Extreme Sensory Alterations'</i>	PI In prep
In prep	National Institutes of Health (NIH); R01, National Institute of Aging (NIA) <i>'Visual Field Map Organization and pRF Changes in AD, MCI, and Aging'</i>	PI In prep
7/1/2014 – 6/30/2017	National Science Foundation (NSF), Mathematical Biology Program. <i>'Quantifying Retinotopic Mapping by Conformal Geometry.'</i> Award #1413417. PI: Yalin Wang, Ph.D., Dept. of Computer Science and Engineering, Arizona State University. Co-PI: Zhong-Lin Lu, Ph.D., Dept. of Psychology, The Ohio State University. *A.A. Brewer was moved from Co-PI status to Consultant status due to completely overlapping full NSF funding on grant #1329255.	*Consultant \$208,000 <i>(Fees: \$42,000 over 3 years)</i>
9/1/2013- 6/30/2017	National Science Foundation (NSF), Cognitive Neuroscience. <i>'Acoustic Foundations of Speech Perception.'</i> Award #1329255. Funded first submission and ranked #1 priority by NSF panel during the reduced science funding of the sequester. Co-PIs: Gregory Hickok, Ph.D.; Kourosh Saberi, Ph.D., Dept. of Cognitive Sciences, UCI.	PI \$475,958

7/2014 - 6/2015	Research and Travel Funds Award , University of California, Irvine. Society for Neuroscience Nanosymposium: <i>'Auditory field maps beyond human primary auditory cortex.'</i>	PI \$1,100
5/2015	Social Sciences Faculty Desktop Computing Initiative Award , University of California, Irvine.	PI \$1,535
6/2014 - 5/2015	2013-2014 Social Sciences Assistant Professor Research Award , University of California, Irvine. <i>'Audiovisual Processing: fMRI investigations into the relationships among human visual and auditory field maps.'</i> Award recognizes research excellence accompanied by a strong research project proposal by a Social Sciences faculty member.	PI \$5,000
7/2013 - 6/2014	Research and Travel Funds Award , University of California, Irvine. Optical Society for America Fall Vision Meeting, Houston, TX. Special Symposium: Measuring visual cortex without vision. <i>'Cross-sensory activation of 'clover leaf' clusters in human visual and auditory cortex.'</i>	PI \$1,100
8/2012 - 7/2013	2011 - 2012 Social Sciences Assistant Professor Research Award , University of California, Irvine. <i>'Visual rehabilitation after stroke through perceptual learning paradigms: harnessing cortical plasticity for therapeutic interventions.'</i> Award recognizes research excellence accompanied by a strong research project proposal by a Social Sciences faculty member.	PI \$5,000
7/2012 - 6/2013	Research and Travel Funds Award , University of California, Irvine. Society for Neuroscience Nanosymposium: Human Extrastriate Cortex: Imaging of Functional Organization. <i>'Functional plasticity in human occipito-temporal visual field map clusters: Adapting to reversed visual input.'</i>	PI \$1,000
7/2012 - 6/2013	National Institutes of Health Loan Repayment Program Scholar <i>'Visual rehabilitation after stroke.'</i> Award #L30 EY019249. NIH salary supplement awarded to top research proposals to encourage outstanding health professionals to pursue biomedical/behavioral/social/clinical research careers.	PI \$9,162.62
7/2012 - 6/2013	The Academic Senate Council on Research, Computing and Libraries (CORCL) Single Investigator Innovation Grant , University of California, Irvine. <i>'Visuospatial Responsivity & Connectivity in the Human Cerebellum.'</i>	PI \$8,550
4/2012 - 3/2013	Translational Collaborative Discovery Grant Award , Institute for Clinical and Translational Science, University of California, Irvine. <i>'Visual rehabilitation after stroke: harnessing cortical plasticity for therapeutic interventions.'</i> Co-PI: Steven C. Cramer, M.D., Depts. of Neurology and Anatomy & Neurobiology, UCI.	PI \$20,000

7/2011 - 6/2012	Research and Travel Funds Award , University of California, Irvine. Vision Sciences Society Symposium: Human visual cortex: from receptive fields to maps to clusters to perception. <i>'Functional Plasticity in Human Parietal Visual Field Map Clusters: Adapting to Reversed Visual Input.'</i>	PI \$1,000
7/2010 - 6/2012	National Institutes of Health Loan Repayment Program Scholar. <i>'The dorsal visual stream: Visual field maps and functional plasticity.'</i> Award #L30 EY019249. NIH salary supplement awarded to top research proposals to encourage outstanding health professionals to pursue biomedical/behavioral/social/clinical research careers.	PI \$35,702.07
12/2010 - 11/2011	Center for Hearing Research Pilot Award , University of California, Irvine. <i>'Mapping tonotopic and periodotopic gradients in human auditory cortex: a traveling wave fMRI study.'</i> Co-PIs: Gregory Hickok, Ph.D.; Kourosh Saberi, Ph.D., Dept. of Cognitive Sciences, UCI.	Co-PI \$4,000
5/2011	Social Sciences Faculty Desktop Computing Initiative Award , University of California, Irvine.	PI \$1,495
5/2010 - 4/2011	2009-2010 Social Sciences Assistant Professor Research Award , University of California, Irvine. <i>'Visual working memory in the human dorsal stream.'</i> Award recognizes research excellence accompanied by a strong research project proposal by a Social Sciences faculty member.	PI \$1,500
3/2009 - 2/2011	Office of Naval Research (ONR), Award #N000140910036. <i>'The Effects of Neuromodulation on Human-Robot Interaction.'</i> PI: Jeffrey L. Krichmar, Ph.D., Dept. of Cognitive Sciences, UCI.	Co-PI \$299,319
3/2010 - 12/2010	The Academic Senate Council on Research, Computing and Libraries (CORCL) Special Research Grant , University of California, Irvine. <i>'Functional Plasticity in Human Visual Cortex.'</i>	PI \$3,695
4/2009 - 3/2010	Alzheimer's Disease Research Center Pilot Grant , University of California, Irvine. <i>'Neuroimaging of visual cortex in Alzheimer's disease and related dementias.'</i>	PI \$23,306
7/2008 - 6/2010	National Institutes of Health (NIH) Loan Repayment Program Scholar. <i>'Neuroimaging of human visual cortex in Posterior Cortical Atrophy and Alzheimer's disease.'</i> Award #L30 EY019249. NIH salary supplement awarded to top research proposals to encourage outstanding health professionals to pursue biomedical/behavioral/social/clinical research careers.	PI \$46,584.93
2007 - 2008	National Center For Research Resources <i>'DTI Of Post-ictal Changes In Patients With Temporal Lobe Epilepsy'</i> Award # P41RR0097847922	PI \$5,757

	Supervisor: Brian A. Wandell, Ph.D., Dept. of Psychology, Stanford University.	
2006	American Medical Association (AMA) Seed Grant , Stanford University. <i>'Post-ictal and inter-ictal diffusion tensor imaging in patients with temporal lobe epilepsy.'</i> AMA encourages medical students, physician residents, and fellows to enter the research field by supporting small research projects. Supervisor: Brian A. Wandell, Ph.D., Dept. of Psychology, Stanford University.	PI \$2,340
9/2002- 6/2006	M.D. / Ph.D. Pre-Doctoral National Research Service Award (NRSA) Grant , National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH). <i>'Human ventral occipito-temporal cortex.'</i> Award #F30 NS044759. Supervisor: Brian A. Wandell, Ph.D., Neurosciences Program, Stanford University.	PI \$89,086
4/2000 – 8/2002	Pre-Doctoral Training Grant, Neurosciences Program, Stanford University. National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH). Award # T32MH020016. PI: William T. Newsome	Trainee N/A
1998	Gerbode Scholar - Resident Medical Scholars Grant , Stanford University. <i>'Quantitative assessment of human aortic blood flow in age-matched atherosclerotic and non-atherosclerotic subjects during moderate exercise in a 1.5T magnet.'</i> Supervisors: Charles Taylor, Ph.D., Dept. of Bioengineering and Surgery; E. John Harris, M.D., Dept. of Vascular Surgery, Stanford University.	PI ~\$12,000
1996	Biological Sciences Laura Weinstein Teaching Award and Grant , Stanford University. Awarded to the top undergraduate teaching assistant.	PI \$1,965
6/1995 - 9/1995	Howard Hughes Medical Institute Summer Fellowship , Stanford University. <i>'The role of the laterodorsal tegmentum in the induction and maintenance of REM sleep in freely-behaving rats.'</i> Supervisors: Craig Heller, Ph.D.; Dennis Grahn, Ph.D., Dept. of Biological Sciences, Stanford University.	PI ~\$3,000

PUBLICATIONS

- 10/22/2020: **4,130 total citations per Google Scholar; H-index = 18, i10-index = 22**
- Pubs UCI#17+ involve work since starting at UCI; pubs UCI#1-16 are from work before UCI. Pubs UCI#1-15 were included in my hiring evaluation.
- Legend: JA - journal article; B - book; BC - book chapter; CP - conference proceeding [UCI #] denotes corresponding label in Review Profile database.
- List of Published Work in MyBibliography:
<http://www.ncbi.nlm.nih.gov/sites/myncbi/alyssa.brewer.1/bibliography/49539208/public/?sort=date&direction=ascending>

PEER-REVIEWED JOURNAL ARTICLES

- 'JA - In prep' listings are associated with in-revision, completed, or nearly completed manuscripts.

JA - In prep	B. Barton, J.H. Venezia, K. Saberi, G. Hickok, A.A. Brewer . Ordered multimodal responses to auditory stimuli are present in early human visual cortex.
JA - In prep	B. Barton, J.H. Venezia, K. Saberi, G. Hickok, A.A. Brewer . Auditory field maps beyond human primary auditory cortex.
JA - In prep	B. Barton, J.H. Venezia, K. Saberi, G. Hickok, A.A. Brewer . Characterization of auditory field map selectivity and magnification in core and belt regions of human cortex.
JA - In prep	B. Barton, A.A. Brewer . Filling-in of the human rod scotoma: linking fMRI to perception.
JA - In prep	A.A. Brewer , B. Barton. How many maps? Cloverleaf clusters in human posterior parietal cortex. For <i>Frontiers in Neuroinformatics Special Issue: Cortical Maps: Data and Models</i>
JA - In prep	B. Barton, A.A. Brewer . Cloverleaf clusters: A fundamental organizing principle of human visual cortex.
JA - In prep	A.A. Brewer , L. Lin, B. Barton. Functional Plasticity Induced in Adult Human Parietal Cortex by Reversed Visual Input.
JA - 34 [UCI #39]	<p>B. Barton, A.A. Brewer. (2017) Visual field map clusters in high-order visual processing: Organization of V3A/V3B and a new cloverleaf cluster in the posterior superior temporal sulcus. <i>Research Topic: Representations of visual space in primates at Frontiers in Neuroscience, Integrative Neuroscience</i>. 11:14. doi: 10.3389/fnint.2017.00004.</p> <p>Invited submission by eds. S.R. Lehky, M.E. Sereno, A.B. Sereno (<i>Invited and peer-reviewed</i>)</p> <p>Research topic articles are available at: http://journal.frontiersin.org/researchtopic/4302/representations-of-visual-space-in- </p>

	<p>primates</p> <p>≥3 citations</p> <p>Impact Factor: 1.98</p>
<p>JA-32 [UCI #37]</p>	<p>A.A. Brewer, B. Barton. (2016) Maps of the Auditory Cortex. <i>Annual Review of Neuroscience</i>. 39(1): 385-407. doi: 10.1146/annurev-neuro-070815-014045.</p> <p>Invited submission by the Editorial Committee of the Annual Review of Neuroscience (<i>Invited and peer-reviewed</i>)</p> <p>≥16 citations</p> <p>Impact Factor: 19.32</p>
<p>JA-30 [UCI #35]</p>	<p>B. Barton, A.A. Brewer. (2015) FMRI of the Rod Scotoma: Cortical rod pathways and implications for lesion measurements. <i>Proceedings of the National Academy of Sciences (PNAS) USA</i>. 112(16), 5201-5206. doi: 10.1073/pnas.1423673112.</p> <p>≥10 citations</p> <p>Impact Factor: 9.81</p>
<p>JA-29 [UCI #34]</p>	<p>E. Huber*, J. Webster*, A.A. Brewer, D. MacLeod, B. Wandell, A. Wade, I. Fine. [*joint first authors] (2015) A lack of experience-dependent plasticity after 12 years of recovered sight. <i>Psychological Science</i>. 26(4), 393-401. doi: 10.1177/0956797614563957.</p> <p>≥14 citations</p> <p>Impact Factor: 4.54</p>
<p>JA-27 [UCI #32]</p>	<p>B. Barton, A. Treister, M. Humphrey, G. Abedi, S.C. Cramer, A.A. Brewer. (2014) Paradoxical Visuomotor Adaptation to Reversed Visual Input Predicted by BDNF Val⁶⁶Met Polymorphism. <i>Journal of Vision</i>. 14(19):4. doi: 10.1167/14.9.4.</p> <p>≥7 citations</p> <p>Impact Factor: 3.38</p>
<p>JA-25 [UCI #30]</p>	<p>A.A. Brewer, B. Barton. (2014) Visual cortex in aging and Alzheimer's disease: Changes in visual field maps and population receptive fields. <i>Research Topic: Visual perception and visual cognition in healthy and pathological ageing. Frontiers in Psychology, Perception Science</i>. 5(74). doi: 10.3389/fpsyg.2014.00074.</p> <p>Paper was highlighted as one of the top 10 most viewed articles in Frontiers in Psychology in February, 2014, and was featured on the Frontiers blog. (http://www.frontiersin.org/blog/Top_10_most_viewed_Psychology_research_articles_in_February_2014/693)</p> <p>Invited submission by special editor Prof. Mark Greenlee. (<i>invited and peer-reviewed</i>) <i>See supporting documents for list of contributing authors.</i></p> <p>Research topic articles are available at: http://journal.frontiersin.org/researchtopic/862/visual-perception-and-visual-</p>

	<p>cognition-in-healthy-and-pathological-ageing</p> <p>≥34 citations</p> <p>Impact Factor: 2.80</p>
<p>JA-24 [UCI #29]</p>	<p>D.E. Asher, A.B. Craig, A. Zaldivar, A.A. Brewer, J.L. Krichmar. (2013) A Dynamic, Embodied Paradigm to Investigate the Role of Serotonin in Decision Making. <i>Research Topic: Neurobiological circuit function and computation of the serotonergic and related systems</i> at Frontiers in Neuroscience, Integrative Neuroscience. 7(78). doi: 10.3389/fnint.2013.00078.</p> <p>Invited submission by special editors Profs. KongFatt Wong-Lin and Kae Nakamura. (<i>invited and peer-reviewed</i>)</p> <p>Research topic articles are available at: http://journal.frontiersin.org/researchtopic/844/neurobiological-circuit-function-and-computation-of-the-serotonergic-and-related-systems</p> <p>≥8 citations</p> <p>Impact Factor: 2.00</p>
<p>JA-23 [UCI #28]</p>	<p>B. Barton & A.A. Brewer. (2013) Visual working memory in human cortex. Psychology. Special Issue on Advances in Cognitive Psychology. 4(8), 655-662. doi:10.4236/psych.2013.48093.</p> <p>Invited submission by Editor in Chief Prof. Seth Kunen for Special Issue on Advances in Cognitive Psychology (<i>invited and peer-reviewed</i>)</p> <p>≥2 citations</p> <p>Impact Factor: 0.98</p>
<p>JA-22 [UCI #26]</p>	<p>A.B. Craig, D.E. Asher, N. Oros, A.A. Brewer, J.L. Krichmar. (2013) Social contracts and human-computer interaction with simulated adapting agents. Adaptive Behavior. 21(5), 371-387. doi:10.1177/1059712313491612.</p> <p>≥6 citations</p> <p>Impact Factor: 1.15</p>
<p>JA-20 [UCI #25]</p>	<p>B. Barton, J.H. Venezia, K. Saberi, G. Hickok, A.A. Brewer. (2012) Orthogonal Acoustic Dimensions Define Auditory Field Maps in Human Cortex. Proceedings of the National Academy of Sciences (PNAS) USA. 109(50), 20738-43. doi: 10.1073/pnas.1213381109.</p> <p>≥64 citations</p> <p>Impact Factor: 9.81</p>
<p>JA-19 [UCI #22]</p>	<p>A.A. Brewer, B. Barton. (2012) Effects of healthy aging on human primary visual cortex. Health. 4(9A), Special Issue I (Aging), pp. 695-702. doi: 10.4236/health.2012.429109.</p> <p>Invited submission by editor Maggie Chen for Special Issue on Aging (<i>invited and peer-reviewed</i>)</p>

	<p>≥11 citations</p> <p>Impact Factor: 0.42</p>
<p>JA-17 [UCI #20]</p>	<p>D. Asher, A. Zaldivar, B. Barton, A.A. Brewer, J.L. Krichmar. (2012) Reciprocity and retaliation in social games with adaptive agents. <i>IEEE Transactions on Autonomous Mental Development</i>. 4(3), 226-238. doi:10.1109/TAMD.2012.2202658.</p> <p>≥15 citations</p> <p>Impact Factor: 1.35</p>
<p>JA-16 [UCI #18]</p>	<p>A.A. Brewer. (2009) Visual Maps: To merge or not to merge. <i>Current Biology</i>. 19(20):R945-7. doi:10.1016/j.cub.2009.09.016.</p> <p>Invited Dispatch by editor Geoffrey North (<i>invited and peer-reviewed mini-review about a paper and related 'hot topic' published in PNAS</i>)</p> <p>≥4 citations</p> <p>Impact Factor: 10.23</p>
<p>JA-14 [UCI #16]</p>	<p>B.A. Wandell, S.O. Dumoulin*, A.A. Brewer*. [*Authors had equal contribution.] (2007) Visual Field Maps in Human Cortex. <i>Neuron</i>. 56(2), 366-83. doi:10.1016/j.neuron.2007.10.012.</p> <p>Invited review by Neuron (<i>invited and peer-reviewed</i>)</p> <p>≥761 citations</p> <p>Impact Factor: 16.49</p>
<p>JA-13 [UCI #15]</p>	<p>B. A. Wandell, S.O. Dumoulin, A. A. Brewer. (2006) Computational Neuroimaging; Color Signals in the Visual Pathways. <i>Neuro-ophthalmology Japan</i>. 23(3), 324-343.</p> <p>≥7 citations</p> <p>Impact Factor: 0.02</p>
<p>JA-12 [UCI #14]</p>	<p>S.M. Smirnakis, M. Schmid, A.A. Brewer, A.S. Tolias, A. Shuz, M. Augath, W. Inhoffen, B.A. Wandell, N.K. Logothetis. (2005) Neuroscience: Rewiring the adult brain (Reply). <i>Nature</i>. 438(7065), E3-E4. doi:10.1038/nature04360.</p> <p>≥5 citations</p> <p>Impact Factor: 42.35</p>
<p>JA-11 [UCI #13]</p>	<p>A.A. Brewer, J. Liu, A.R. Wade, B.A. Wandell. (2005) Visual field maps and stimulus selectivity in human ventral occipital cortex. <i>Nature Neuroscience</i>. 8(8), 1102-9. doi:10.1038/nn1507.</p> <p>≥358 citations</p> <p>Impact Factor: 14.98</p>
<p>JA-10</p>	<p>S.M. Smirnakis, A.A. Brewer*, M. Schmid*, A.S. Tolias, M. Augath, W. Inhoffen, A. Shuz,</p>

[UCI #12]	<p>B.A. Wandell, N.K. Logothetis, [*Authors had equal contribution]. (2005) Lack of long-term cortical reorganization after macaque retinal lesions. <i>Nature</i>. 435(7040), 300-7. doi:10.1038/nature03495.</p> <p><i>News and Views</i> by M. I. Sereno (<i>Nature</i>. 435, 288-289).</p> <p>≥187 citations</p> <p>Impact Factor: 42.35</p>
JA-9 [UCI #11]	<p>R.F. Dougherty, M. Ben-Shacher, R. Bammer, A.A. Brewer, B.A. Wandell. (2005) Functional organization of human occipital-callosal fiber tracts. <i>Proceedings of the National Academy of Sciences (PNAS) USA</i>. 102(20), 7350-5. doi:10.1073/pnas.0500003102.</p> <p>≥190 citations</p> <p>Impact Factor: 9.81</p>
JA-8 [UCI #10]	<p>B.A. Wandell, A.A. Brewer, R.F. Dougherty. (2005) Visual field map clusters in human cortex. <i>Philosophical Transactions of the Royal Society, Series B. (London)</i>. Vol: 360, 693-707. (Special theme issue 'Cerebral cartography 1905–2005'.) doi:10.1098/rstb.2005.1628.</p> <p>≥278 citations</p> <p>Impact Factor: 6.23</p>
JA-7 [UCI #9]	<p>B.A. Wandell, R.F. Dougherty, A. Brewer, M. Ben-Shachar, R. Bammer, G. Deutsch. (2004) Measuring activity and structure in the human brain. <i>Society for Industrial and Applied Mathematics News</i>. Vol: 37 (7).</p> <p>Impact Factor: not available</p>
JA-6 [UCI #8]	<p>R. F. Dougherty, V. M. Koch, A.A. Brewer, B. Fischer, J. Modersitzki, B. A. Wandell. (2003) Visual field representations and locations of visual areas V1/2/3 in human visual cortex. <i>Journal of Vision</i>. 3(10), 586-598. doi:10.1167/3.10.1.</p> <p>≥490 citations</p> <p>Impact Factor: 3.38</p>
JA-5 [UCI #7]	<p>I. Fine, A.R. Wade, A.A. Brewer, M.G. May, D.F. Goodman, G.M. Boynton, B.A. Wandell, D.I. MacLeod. (2003) Long-term deprivation affects visual perception and cortex. <i>Nature Neuroscience</i>. 6(9), 915-916. doi:10.1038/nn1102.</p> <p>≥249 citations</p> <p>Impact Factor: 14.98</p>
JA-4 [UCI #6]	<p>A.A. Brewer, W. A. Press, N. K. Logothetis, B. A. Wandell. (2002) Visual areas in macaque cortex measured using functional magnetic resonance imaging. <i>Journal of Neuroscience</i>. 22(23), 10416-10426.</p> <p>≥172 citations</p>

	Impact Factor: 6.91
JA-3 [UCI #5]	A.R. Wade, A.A. Brewer , B.A. Wandell. (2002) Functional Measurements of Human Ventral Occipital Cortex: Retinotopy and Color. <i>Philosophical Transactions of the Royal Society, Series B. (London)</i> . Vol: 357, No.1424, 963- 973. doi: 10.1098/rstb.2002.1108 . ≥253 citations Impact Factor: 6.23
JA-2 [UCI #4]	H.A. Baseler, A.A. Brewer , L.T. Sharpe, A.B. Morland, H. Jägle, B.A. Wandell. (2002) Reorganization of human cortical maps caused by inherited photoreceptor abnormalities. <i>Nature Neuroscience</i> . 5(4), 364-70. doi: 10.1038/nn817 . ≥132 citations Impact Factor: 14.98
JA-1 [UCI #3]	W.A. Press, A.A. Brewer , R.F. Dougherty, A.R. Wade, B.A. Wandell. (2001) Visual areas and spatial summation in human visual cortex. <i>Vision Research</i> . 41(10-11), 1321-32. doi: 10.1016/S0042-6989(01)00074-8 ≥197 citations Impact Factor: 2.55

PEER-REVIEWED BOOKS

<i>B – In prep</i>	A.A. Brewer , B. Barton. (<i>under contract</i>) <i>Cortical Plasticity in the Human Visual System</i> . Springer.
<i>B – In progress</i>	A.A. Brewer (Editor). (accepted, 4/2018). <i>Cortical plasticity: Computational neuroimaging investigations of human visual cortex</i> . (London, U.K.: IntechOpen). <i>Awarded position of Academic Editor for the 'IntechOpen Women in Science' Book Collective Initiative; 10 books chosen out of 288 international proposals. Sole editor from USA.</i>

 PEER-REVIEWED BOOK CHAPTERS

- 'BC - In prep' listings are associated with chapters in progress & for which proposals have been accepted.

BC - 36 [UCI #41]	B. Barton, A.A. Brewer . (2019). Attention and working memory in human auditory cortex. In <i>The Human Auditory System - Basic Features and Updates on Audiological Diagnosis and Therapy</i> , Eds. Stavros Hatzopoulos, Andrea Ciorba and Piotr H. Skarzynski. ISBN 978-1-78923-938-6. (London, U.K.: IntechOpen) doi: 10.5772/intechopen.85537 . Invited submission by IntechOpen Publishers. (<i>invited and peer-reviewed</i>)
BC-35 [UCI #40]	A.A. Brewer , B. Barton. (2018). Cloverleaf clusters: A common macrostructural organization across human visual and auditory cortex. In <i>Sensory Nervous System</i> , Ed. Thomas Heinbockel. ISBN: 978-953-51-5595-9. (London, U.K.: IntechOpen) Ch. 6, pp. 127-160. doi: 10.5772/intechopen.77964 . Book available from: https://www.intechopen.com/books/sensory-nervous-system Invited submission by IntechOpen Publishers. (<i>invited and peer-reviewed</i>)
BC-33 [UCI #38]	A.A. Brewer , B. Barton. (2016). Changes in visual cortex in healthy aging and dementia. In <i>Update on Dementia</i> , Ed. Davide Moretti. Print ISBN: 978-953-51-2654-6. (Rijeka, Croatia: InTech). Ch. 12, pp. 273-310. doi: 10.5772/64562 . Book available from: https://www.intechopen.com/books/update-on-dementia Invited submission by InTech Publishers. (<i>invited and peer-reviewed</i>)
BC-28 [UCI #27]	B. Barton, A.A. Brewer . (2015) Human Auditory Cortex. In <i>Neurobiology of Language</i> , Eds. G. Hickok, S. L. Small. ISBN 978-0-12-407794-2. (Cambridge: Academic Press, Elsevier) Ch. 5, pp. 49-58. doi: 10.1016/B978-0-12-407794-2.00005-5 . Book available from: http://www.sciencedirect.com/science/book/9780124077942 Invited submission by editors: Profs. G. Hickok and S. Small. (<i>invited and peer-reviewed</i>)
BC-21 [UCI #23]	A.A. Brewer , B. Barton. (2014) Developmental Plasticity: fMRI Investigations into Human Visual Cortex. In <i>Advanced Brain Neuroimaging Topics in Health and Disease - Methods and Applications</i> , Eds. T. Dorina Papageorgiou, George Christopoulos, Stelios Smirnakis. ISBN: 978-953-51-1203-7. (Rijeka, Croatia: InTech) Ch. 12, pp. 305-334. doi: 10.5772/58277 . Book available from: http://www.intechopen.com/books/advanced-brain-neuroimaging-topics-in-health-and-disease-methods-and-applications Chapter was ranked as the most downloaded chapter in the book in 2014. Invited submission by editors: Drs. T. Dorina Papageorgiou, George Christopoulos, Stelios Smirnakis. (<i>invited and peer-reviewed</i>) ≥3 citations
BC-18	A.A. Brewer , B. Barton. (2012) Visual field map organization in human visual cortex. In

[UCI #21]	<p>Visual Cortex- Current Status and Perspectives, Eds. Stephane Molotchnikoff, Jean Rouat. ISBN: 978-953-51-0760-6. (Rijeka, Croatia: InTech) Ch. 2, pp. 30-60. doi:10.5772/51914.</p> <p>Book available from: http://www.intechopen.com/books/visual-cortex-current-status-and-perspectives</p> <p>Chapter was highlighted online for passing 1,000 downloads in 7/2013 and has been ranked as the most downloaded chapter of the book (2012-2016).</p> <p>Invited submission by InTech Publishers. (<i>invited and peer-reviewed</i>)</p> <p>≥24 citations</p>
BC-15 [UCI #17]	<p>B.A. Wandell, S.O. Dumoulin, A.A. Brewer. (2009) Visual cortex in humans. In Encyclopedia of Neuroscience, Ed. L.R. Squire. (Oxford: Academic Press) Vol. 10, pp. 251-257.</p> <p>Invited submission by editor: Prof. L. Squire. (<i>invited and peer-reviewed</i>)</p> <p>≥25 citations</p>

PEER-REVIEWED CONFERENCE PROCEEDINGS

CP-31 [UCI #36]	<p>D. Ta, B. Barton, A.A. Brewer, Z.L. Lu, Y Wang. (2015) Characterizing Human Retinotopic Mapping Using Conformal Geometry: Conformal Distortion Analysis. International Conference on Medical Imaging Computing and Computer Assisted Interventions (HPC - MICCAI). Munich, Germany.</p> <p>Impact Factor: 3.65</p>
CP-26 [UCI #31]	<p>D. Ta, J. Shi, B. Barton, A.A. Brewer, Z.L. Lu, Y. Wang. (2014) Characterizing Human Retinotopic Mapping with Conformal Geometry: A Preliminary Study. Proc. SPIE. 9034, Medical Imaging: Image Processing, 90342A. San Diego, CA. doi: 10.1117/12.2043570.</p> <p>Impact Factor: 0.24</p>

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BROADCAST MEDIA

- 2) [UCI #33] **'Messing with Reality?' - Episode 1 of The Brain with David Eagleman - Exploration Into the Inner Cosmos**. (Filmed 8/23/2014; Aired 10/15/2015). Publisher: **Public Broadcasting Service (PBS)**, produced by Blink Films. Featured scientists in Part 1: Alyssa A. Brewer, M.D., Ph.D., Brian Barton, Ph.D., and David Eagleman, Ph.D.
- I was invited to contribute as a guest scientist to a landmark, 6 part series on the human brain filmed for PBS by Blink Films, a leading British television production company specializing in*

scientific, cultural and historical documentaries for international broadcast. My short-term [UCI #32] and long-term [in prep/submitted] prism visual-motor adaptation studies will be featured in the first hour-long segment entitled, 'Messing with Reality,' which discusses human perception. Filming of my visual adaptation work and of my discussions of human perception with series creator Dr. David Eagleman took place August 23, 2014, on UCI campus. The series premiered in October, 2015, as part of the PBS "Think Wednesday" lineup.

Episode clip available from: <https://www.youtube.com/watch?v=7x1GM5sNpwk>

Full PBS series available from: <http://www.pbs.org/the-brain-with-david-eagleman/home/>

- 1) [UCI #24] **'Topographic Visual Maps with Dr. Alyssa Brewer.'** (2013) Brain Matters Podcast, Episode 4; The University of Texas at Austin: <http://brainpodcast.com>; Freely available on iTunes: <https://itunes.apple.com/us/podcast/topographic-visual-maps-dr./id730239508?i=196985728&mt=2>

DISSERTATION (PUBLISHED)

- 1) **A.A. Brewer.** (2005) Visual field map properties and plasticity in human and macaque cortex. *Doctoral Dissertation, Stanford University*, 215 pp. (Ann Arbor: ProQuest/UMI) Proquest document ID: 305437985; Dissertation/thesis number: 3187264. (Dissertation Abstracts International DAI-B 66/08, p. 4098, Feb 2006), ISBN-13: 9780542294709, ISBN-10: 0542294702.
- Available from: <http://search.proquest.com/docview/305437985?accountid=14509>

TECHNICAL REPORTS

- 8) **A.A. Brewer**, D. Chen, A. Sherbondy, R.F. Dougherty, R. Fisher, B.A. Wandell. (2006) Diffusion Tensor Imaging of Post-ictal Changes in Patients with Temporal Lobe Epilepsy. *The Lucas Report*. Vol. 5, pg. 82.
- 7) **A.A. Brewer**, J. Liu, A.R. Wade, B.A. Wandell. (2005) New Subdivisions of the Human VO Cluster Derived from Visual Field Mapping and Stimulus Selectivity. *The Lucas Report*. Vol. 4, pg. 72.
- 6) **A.A. Brewer**, J. Liu, A.R. Wade, B.A. Wandell. (2004) Human Ventral Occipitotemporal Cortex Contains Several Visual Field Maps With Differential Stimulus Selectivity. *The Lucas Report*. Vol. 3, pg. 84.
- 5) I. Fine, A.R. Wade, **A.A. Brewer**, M.G. May, D.F. Goodman, G.M. Boynton, D.I.A. MacLeod, B.A. Wandell. (2003) The Effects of Long-Term Deprivation on Visual Perception and Visual Cortex. *The Lucas Report*. Vol. 2, pg. 57.

- 4) A.R. Wade, **A.A. Brewer**, B.A. Wandell. (2002) Functional Organization of the Ventral Surface of the Human Visual Cortex. *The Lucas Report*. Vol. 1, pg. 43.
- 3) R.F. Dougherty, **A.A. Brewer**, A.R. Wade, B.A. Wandell. (2002) Measurement of Human Visual Areas Across Individuals. *The Lucas Report*. Vol. 1, pg. 42.
- 2) **A. Brewer**, P. Fisher. (1999) Review of conventional and alternative treatments for glioblastoma multiforme. Donated to *AGY Therapeutics* and the *National Brain Tumor Foundation*.
[UCI #2]
- 1) **A. Brewer**. (1996) The role of the laterodorsal tegmentum in the induction and maintenance of REM sleep in freely-behaving rats. *The Stanford Biologist: A Journal of Undergraduate Research*. Vol. 1.
[UCI #1]

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CONFERENCE ABSTRACTS († PUBLISHED; * INVITED SPEAKER)

- 84) * **A.A. Brewer**. (2018) Quantitative Neuroimaging approaches to measure pain representations in human cortex and subcortex. Houston, TX: *Translational Pain Research Conference of the Gulf Coast Consortium*. **Invited Keynote Keck Speaker ***.
- 83) † B. Barton, **A.A. Brewer**. (2017) Visual field map clusters in high-order visual processing: Organization of V3A/V3B and a new cloverleaf cluster in the posterior superior temporal sulcus. Society for Neuroscience Abstracts. Program No. 403.21. Neuroscience 2017 Abstracts. Washington, D.C.: *Society for Neuroscience*. Online.
- 82) † **A.A. Brewer**, B. Barton. (2017) Visual field map clusters in higher-order visual processing: Organization of visual field maps within the human lateral occipital cortex. Society for Neuroscience Abstracts. Program No. 403.20. Neuroscience 2017 Abstracts. Washington, D.C.: *Society for Neuroscience*. Online.
- 81) † B. Barton, **A.A. Brewer**. (2016) Visual field map clusters in high-order visual processing: An analysis of a new cluster in the posterior superior temporal sulcus. Society for Neuroscience Abstracts. Program No. 771.08. Neuroscience 2016 Abstracts. San Diego, CA: *Society for Neuroscience*. Online.
- 80) * **A.A. Brewer**, B. Barton. (2016) Cortical plasticity of human visual function. Symposium on "Bridging the gap in ophthalmology: From physics to visual cognition", *114th Congress of the German Ophthalmology Society (DOG), Berlin, Germany*. **Invited speaker ***.
- 79) B. Barton, **A.A. Brewer**. (2016) fMRI of the rod scotoma: cortical rod pathways and implications for lesion measurements. Symposium on "Bridging the gap in ophthalmology: From physics to visual cognition", *114th Congress of the German Ophthalmology Society (DOG), Berlin, Germany*.
- 78) † B. Barton, J.H. Venezia, K. Saberi, G. Hickok, **A.A. Brewer**. (2015) Visual activation of auditory field maps across Heschl's Gyrus and surrounding cortex. Society for Neuroscience Abstracts. Program No. 597.14. Neuroscience 2015 Abstracts. Chicago, IL: *Society for Neuroscience*. Online.

- 77) † B. Barton, J.H. Venezia, K. Saberi, G. Hickok, **A.A. Brewer**. (2014) Auditory field maps beyond human primary auditory cortex. Society for Neuroscience Abstracts. Program No. 328.11. Neuroscience 2014 Abstracts. Washington, D.C.: **Society for Neuroscience**. Online.
- 76) † G. Hickok, **A.A. Brewer**, K. Saberi. (2013) Neural oscillations, temporal modulation rate filters, and periodicity maps in human auditory cortex. **Toronto, Ontario, Canada: The Psychonomic Society Annual Meeting**. Vol. 18. Online.
- 75) † J. Webster, E. Huber, **A.A. Brewer**, D. MacLeod, B. Wandell, I. Fine. (2013) A lack of experience-dependent plasticity in the ventral visual cortex after 12 years of recovered sight. Society for Neuroscience Abstracts. Program No. 31.06. Neuroscience 2013 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 74) † B. Barton, **A.A. Brewer** (2013) Filling-In of the Rod Scotoma: Linking fMRI to Perception. Society for Neuroscience Abstracts. Program No. 120.06. Neuroscience 2013 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 73) † **A.A. Brewer**, B. Barton. (2013) FMRI of the Rod Scotoma: Population Receptive Fields Silenced, Shifted, and Scaled. Society for Neuroscience Abstracts. Program No. 120.05. Neuroscience 2013 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 72) † B. Barton, **A.A. Brewer**. (2013) Cross-sensory activation of ‘clover leaf’ clusters in human visual and auditory cortex. Houston, TX: Optical Society of America, Fall Vision Meeting. **Journal of Vision**. 13(15), T18. doi: [10.1167/13.15.18](https://doi.org/10.1167/13.15.18).
- 71) J. Webster, E. Huber, **A.A. Brewer**, D. MacLeod, B. Wandell, A. Wade, I. Fine. (2013) A lack of experience-dependent plasticity in the ventral visual cortex after 12 years of recovered sight. Seattle, WA: **Institute for Systems Biology Annual Symposium** at the University of Washington.
- 70) † **A.A. Brewer**, B. Barton, J. Venezia, K. Saberi, G. Hickok. (2013) Cross-sensory activation of ‘clover leaf’ clusters in human auditory and visual cortex. San Francisco, CA: Cognitive Neuroscience Society Annual Meeting. **Journal of Cognitive Neuroscience**, 56.
- 69) † B. Barton, J. Venezia, K. Saberi, G. Hickok, **A.A. Brewer**. (2013) Orthogonal acoustic dimensions define auditory field maps in human cortex. San Francisco, CA: Cognitive Neuroscience Society Annual Meeting. **Journal of Cognitive Neuroscience**, 56.
- 68) † J. Venezia, B. Barton, K. Saberi, **A.A. Brewer**, G. Hickok . (2013) The distribution of cortical surface area dedicated to auditory temporal receptive fields is symmetric between hemispheres in human auditory core and belt. San Francisco, CA: Cognitive Neuroscience Society Annual Meeting. **Journal of Cognitive Neuroscience**, 175.998
- 67) † J. Venezia, B. Barton, K. Saberi, **A.A. Brewer**, G. Hickok. (2012) The distribution of cortical surface area dedicated to auditory temporal receptive fields is symmetric between hemispheres in human auditory core and belt. **San Sebastian, Spain: Neurobiology of Language Conference**. Online.
- 66) **A.A. Brewer**, D.E. Asher, A.B. Craig, N. Oros, J.L. Krichmar. (2012) A Dynamic and Embodied Environment to Probe the Neural Correlates of Decision-Making and Social Signaling. New Orleans, LA: Collective Cognition - The Neurophysiology of Social Neuroscience; 20th Annual **Dynamical Neuroscience Satellite Symposium**.

- 65) † B. Barton, J. Venezia, K. Saberi, G. Hickok, **A.A. Brewer**. (2012) Audiovisual Processing: fMRI investigations into the relationships between human visual and auditory field maps. Society for Neuroscience Abstracts. Program No. 723.06. Neuroscience 2012 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online.
- 64) † **A.A. Brewer** & B. Barton. (2012) Functional plasticity in human occipito-temporal visual field map clusters: adapting to reversed visual input. Society for Neuroscience Abstracts. Program No. 723.05. Neuroscience 2012 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online.
- 63) † B. Barton, A. Treister, G. Abedi, M. Humphrey, S.C. Cramer, **A.A. Brewer**. (2012) BDNF Polymorphism Affecting Neural Plasticity Predicts Visuo-Motor Adaptation to Left-Right Visual Reversal. Vision Sciences Society. *Journal of Vision*. 12 (9), 1328. doi: [10.1167/12.9.1328](https://doi.org/10.1167/12.9.1328).
- 62) † **A.A. Brewer**, B. Barton, L. Lin. (2012) Functional Plasticity in Human Parietal Visual Field Map Clusters: Adapting to Reversed Visual Input. In Symposium: 'Human visual cortex: from receptive fields to maps to clusters to perception.' Vision Sciences Society. *Journal of Vision*. 12(9), 1398. doi: [10.1167/12.9.1328](https://doi.org/10.1167/12.9.1328). ≥6 citations
- 61) † D.E. Asher, A. Zaldivar, B. Barton, **A.A. Brewer**, J.L. Krichmar. (2011) Effects of Neuromodulation on Adaptive Behavior on Reciprocity During Human-Robot Interactions. Society for Neuroscience Abstracts. Program No. 725.08. Neuroscience 2011 Abstracts. Washington, D.C.: **Society for Neuroscience**. Online.
- 60) † B. Barton, J. Venezia, K. Saberi, G. Hickok, **A.A. Brewer**. (2011) Orthogonal Maps of Tonotopy and Periodicity in Human Auditory Core. Society for Neuroscience Abstracts. Program No. 171.25. Neuroscience 2011 Abstracts. Washington, D.C.: **Society for Neuroscience**. Online.
- 59) † **A.A. Brewer**, B. Barton. (2011) 'Clover Leaf' Cartography: Connectivity Among Visual Field Map Clusters. Society for Neuroscience Abstracts. Program No. 851.01. Neuroscience 2011 Abstracts. Washington, D.C.: **Society for Neuroscience**. Online.
- 58) † **A.A. Brewer**, B. Barton. (2011) Aging and dementia in human visual cortex: Visual field map organization and population receptive fields. Optical Society of America, Fall Vision Meeting. *Journal of Vision* 11 (15), 28. doi:[10.1167/11.15.28](https://doi.org/10.1167/11.15.28).
- 57) † B. Barton, **A.A. Brewer**. (2011) fMRI of the Rod Scotoma: Filling-In, Rod Pathway Projections, and Insights into Plasticity. Optical Society of America, Fall Vision Meeting. *Journal of Vision* 11 (15), 9. doi:[10.1167/11.15.9](https://doi.org/10.1167/11.15.9). ≥1 citation
- 56) † D.E. Asher, A. Zaldivar, B. Barton, **A.A. Brewer**, J. Krichmar. (2011) The Effects of Neuromodulation on Human-Robot Interaction in Games of Conflict and Cooperation. *International Joint Conference on Neural Networks (IJCNN)*, (San Jose, CA) p. 2087. doi:[10.1109/IJCNN.2011.6033484](https://doi.org/10.1109/IJCNN.2011.6033484). [CP, UCI# 19]
- 55) † B. Barton, **A.A. Brewer**. (2011) fMRI of the Rod Scotoma: Filling-In, Rod Pathway Projections, and How It Informs Plasticity. **Toulouse, France**: European Conference on Visual Perception. *Perception* 40 (ECP Abstract Supplement), 14. ≥2 citation
- 54) † **A.A. Brewer**, B. Barton. (2011) 'Clover Leaf' Clusters in Human Visual Cortex. Toulouse, France: European Conference on Visual Perception. *Perception* 40 (ECP Abstract Supplement), 48. ≥1 citation

- 53) B. Barton & **A.A. Brewer**. (2011) fMRI of the Rod Scotoma: Cortical Rod Projections, Filling-in, and Insights into Plasticity. San Diego, CA: **Joint Symposium on Neural Computation**.
- 52) * **A.A. Brewer**, B. Barton, L. Lin. (2011) Functional Plasticity in Human Parietal Cortex: Adapting to Reversed Visual Input. San Diego, CA: **Joint Symposium on Neural Computation. Invited Speaker**.
- 51) * **A.A. Brewer**. (2011) Functional plasticity in adult human cortex in response to an extreme alteration of visual input. **Goettingen, Germany: Neurowissenschaftliche Gesellschaft: Ninth Goettingen Meeting of the German Neuroscience Society**, 33rd Goettingen Neurobiology Conference, **Goettingen, Germany. Invited Speaker ***.
- 50) **A.A. Brewer** & B. Barton. (2011) Perceptual and fMRI Evidence for Filling-In of the Rod Scotoma Under Scotopic Conditions. **Goettingen, Germany: Neurowissenschaftliche Gesellschaft: Ninth Goettingen Meeting of the German Neuroscience Society**, 33rd Goettingen Neurobiology Conference, **Goettingen, Germany**.
- 49) B. Barton & **A.A. Brewer**. (2011) Pinwheel Cartography: Visual Field Map Clusters in Ventral-, Medial-, and Lateral-Occipital Cortex. **Neurowissenschaftliche Gesellschaft: Ninth Goettingen Meeting of the German Neuroscience Society**, 33rd Goettingen Neurobiology Conference, **Goettingen, Germany**.
- 48) B. Barton & **A.A. Brewer**. (2011) Perceptual and fMRI Evidence for Filling-In of the Rod Scotoma Under Scotopic Conditions. Irvine, CA: **Southern California Cognitive Neuroscience Meeting**.
- 47) **A.A. Brewer** & B. Barton. (2011) 'Clover Leaf' Clusters in Human Visual Cortex. Irvine, CA: **Southern California Cognitive Neuroscience Meeting**.
- 46) † B. Barton & **A.A. Brewer**. (2010) Pinwheel cartography: A fundamental organizing principle of the human visual system. Society for Neuroscience Abstracts. Program No. 19.1. Neuroscience 2010 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 45) † S.A. Drew, D.E. Asher, B. Barton, **A.A. Brewer**. (2010) Pinwheel cartography: New visual field map cluster in the human posterior parahippocampal complex. Society for Neuroscience Abstracts. Program No. 580.7. Neuroscience 2010 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 44) † D.E. Asher, S.A. Drew, B. Barton & **A.A. Brewer**. (2010) Pinwheel cartography: Novel visual field map cluster within human ventro-lateral occipital cortex. Society for Neuroscience Abstracts. Program No. 580.8. Neuroscience 2010 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 43) † **A.A. Brewer** & B. Barton. (2010) Pinwheel cartography: Visual field map clusters in posterior parietal cortex that subserve visual attention and working memory. Society for Neuroscience Abstracts. Program No. 580.9. Neuroscience 2010 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.
- 42) † B. Barton & **A.A. Brewer**. (2010) Perceptual and fMRI Evidence for Filling-In of the Rod Scotoma Under Scotopic Conditions. Optical Society of America Fall Vision Meeting. **Journal of Vision** 10 (15), 52. doi:[10.1167/10.15.52](https://doi.org/10.1167/10.15.52).
- 41) † **A.A. Brewer** & B. Barton. (2010) Pinwheel Cartography: A fundamental organizing principle of the human visual system. Optical Society of America Fall Vision Meeting. **Journal of Vision**

- 10 (15), 49. doi:[10.1167/10.15.49](https://doi.org/10.1167/10.15.49).
- 40) † **A.A. Brewer** & B. Barton. (2010) Visual field map organization and connectivity in aging human visual cortex. Honolulu, HI: Alzheimer's Association International Conference on Alzheimer's Disease. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* Volume 6, Issue 4, July Supplement pg. S437, Abstract P2-405. doi:[10.1016/j.jalz.2010.05.1458](https://doi.org/10.1016/j.jalz.2010.05.1458).
- 39) † B. Barton & **A.A. Brewer**. (2010) White and gray matter of visual cortex in Alzheimer's disease: Visual field maps, population receptive fields, and diffusion tensor imaging. Honolulu, HI: Alzheimer's Association International Conference on Alzheimer's Disease. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* Volume 6, Issue 4, July Supplement pg. S284, Abstract P1-382. doi:[10.1016/j.jalz.2010.05.936](https://doi.org/10.1016/j.jalz.2010.05.936).
- 38) A.A. Brewer & B. Barton. (2010) Visual Field Map Organization and Connectivity in Aging Human Visual Cortex. Honolulu, HI: *Alzheimer's Imaging Consortium* at the Alzheimer's Association International Conference on Alzheimer's Disease.
- 37) B. Barton & **A.A. Brewer**. (2010) White and gray matter of visual cortex in Alzheimer's disease: Visual field maps, population receptive fields, and diffusion tensor imaging. Honolulu, HI: *Alzheimer's Imaging Consortium* at the Alzheimer's Association International Conference on Alzheimer's Disease.
- 36) L. Lin, B. Barton, & **A.A. Brewer**. (2010) Putting The Prisms Back On: Both Maps of Visual Space Persist, as Revealed by Cortical Adaptation to Left-Right Field Reversal. Los Angeles, CA: *Joint Symposium on Neural Computation*. University of California, Los Angeles.
- 35) † **A.A. Brewer**, B. Barton, & L. Lin. (2010) Putting The Prisms Back On: Both Maps of Visual Space Persist, as Revealed by Cortical Adaptation to Left-Right Field Reversal. Vision Sciences Society. *Journal of Vision* 10 (7), 899. doi:[10.1167/10.7.899](https://doi.org/10.1167/10.7.899).
- 34) † B. Barton & **A.A. Brewer**. (2010) Visual Working Memory Capacity in Retinotopic Cortex: Number, Resolution, and Population Receptive Fields. Vision Sciences Society. *Journal of Vision* 10 (7), 729. doi:[10.1167/10.7.729](https://doi.org/10.1167/10.7.729). ≥1 citation
- 33) † B. Barton, L. Lin, & **A.A. Brewer**. (2009) Functional plasticity in normal adult humans demonstrated by shifts in laterality of visual field representation in a wide array of visual field maps. Society for Neuroscience Abstracts. Program No. 404.5. Neuroscience 2009 Abstracts. Chicago, IL: *Society for Neuroscience*. Online.
- 32) † D.E. Asher, B. Barton, & **A.A. Brewer**. (2009) Novel foveal representations in human ventrolateral cortex. Society for Neuroscience Abstracts. Program No. 453.5. Neuroscience 2009 Abstracts. Chicago, IL: *Society for Neuroscience*. Online.
- 31) † **A.A. Brewer**, B. Barton, D.E. Asher. (2009) Projections of rod pathways in human visual cortex. Society for Neuroscience Abstracts. Program No. 453.25. Neuroscience 2009 Abstracts. Chicago, IL: *Society for Neuroscience*. Online.
- 30) † L. Lin, B. Barton, D.E. Asher, & **A.A. Brewer**. (2009) Visual field mapping of visuomotor adaptation to reversing prisms. Society for Neuroscience Abstracts. Program No. 404.1. Neuroscience 2009 Abstracts. Chicago, IL: *Society for Neuroscience*. Online.
- 29) *† **A.A. Brewer**, B. Barton, & L. Lin. (2009) A Novel Use for Visual Field Maps: Tracking Functional Plasticity in Posterior Parietal Cortex. Optical Society of America, Fall Vision

- Meeting. *Journal of Vision* 9 (14), 19. doi:[10.1167/9.14.19](https://doi.org/10.1167/9.14.19). **Invited Speaker ***.
- 28) † B. Barton, D.E. Asher, & **A.A. Brewer**. (2009) Rod Pathway Projections in Human Visual Cortex. Optical Society of America, Fall Vision Meeting. *Journal of Vision* 9 (14), 90. doi:[10.1167/9.14.90](https://doi.org/10.1167/9.14.90).
- 27) † B. Barton, L. Lin, D.E. Asher, & **A.A. Brewer**. (2009) Alteration of Visuomotor Processing Following Left-Right Prism Adaptation. Vision Sciences Society. *Journal of Vision* 9 (8), 763. doi:[10.1167/9.8.763](https://doi.org/10.1167/9.8.763). **≥1 citation**
- 26) † D.E. Asher, **A.A. Brewer**. (2009) Hemispheric differences of color responses in human ventral visual cortex. Vision Sciences Society. *Journal of Vision* 9 (8), 776. doi:[10.1167/9.8.776](https://doi.org/10.1167/9.8.776). **≥2 citations**
- 25) † **A.A. Brewer**, B. Barton, D.E. Asher, & D. Liu. (2009) Rod Signals in Human Ventral Cortex. Vision Sciences Society. *Journal of Vision* 9 (8), 777. doi:[10.1167/9.8.777](https://doi.org/10.1167/9.8.777).
- 24) † L. Lin, B. Barton, D.E. Asher, **A.A. Brewer**. (2009) Visual Field Mapping of Visuomotor Adaptation to Prisms. Vision Sciences Society. *Journal of Vision* 9 (8), 762. doi:[10.1167/9.8.762](https://doi.org/10.1167/9.8.762). **≥1 citation**
- 23) B. Barton, L. Lin, & **A.A. Brewer**. (2009) Visuomotor Adaptation to an Extreme Alteration of Visual Input. Irvine, CA: *Annual Meeting of the UCI Center for Cognitive Neuroscience*.
- 22) † S.O. Dumoulin, **A.A. Brewer**, M. Ben-Shachar, R.F. Dougherty, B.A. Wandell. (2006) Distinguishing visual field map clusters: a new paradigm. Vision Sciences Society. *Journal of Vision* 6 (6), 533. doi:[10.1167/6.6.533](https://doi.org/10.1167/6.6.533). **≥1 citation**
- 21) † **A.A. Brewer**, J. Liu, A. Wade, B.A. Wandell. (2005) New subdivisions of the human VO cluster derived from visual field mapping and stimulus selectivity. Society for Neuroscience Abstracts. Program No. 582.11. Neuroscience 2005 Abstracts. Washington, D.C.: *Society for Neuroscience*. Online.
- 20) S.M. Smirnakis, {**A.A. Brewer**, M. Schmid}, A.S. Tolias, M. Augath, W. Inhoffen, A. Shuz, B.A. Wandell, N.K. Logothetis, [{}: Authors had equal contribution]. (2005) Adult macaque V1 fails to reorganize in the months following homonymous retinal lesions. Stanford, CA: *Stanford Medical Student Research Symposium*.
- 19) *† **A.A. Brewer**. Evaluation of visual field map organization in ventral occipital cortex. (2005) *Workshop on New Concepts of Cortical Retinotopy*. Vision Sciences Society. *Journal of Vision* 5 (8). **Invited Speaker***.
- 18) † **A.A. Brewer**, J. Liu, A.R. Wade, B.A. Wandell. (2004) Human ventral occipitotemporal cortex contains several visual field maps with differential stimulus selectivity. Society for Neuroscience Abstracts. Program No. 300.23. Neuroscience 2004 Abstracts. San Diego, CA: *Society for Neuroscience*. Online.
- 17) † S.M. Smirnakis, {**A.A. Brewer**, M. Schmid}, A.S. Tolias, M. Augath, W. Inhoffen, A. Shuz, B.A. Wandell, N.K. Logothetis, [{}: Authors had equal contribution]. (2004) V1 cortical reorganization revisited: fMRI and electrophysiology in macaque following retinal lesions. Society for Neuroscience Abstracts. Program No. 605.3. Neuroscience 2004 Abstracts. San Diego, CA: *Society for Neuroscience*. Online. **≥1 citation**
- 16) **A.A. Brewer**, A.R. Wade, J. Liu, B.A. Wandell. (2004) Visual field maps in human ventral

- occipitotemporal cortex. Stanford, CA: **Stanford Medical Student Research Symposium**.
- 15) † J. Liu, **A.A. Brewer**, B.A. Wandell. Variations in temporal and chromatic responses across human visual cortex. (2004) Vision Sciences Society. *Journal of Vision* 4 (8), 318. doi:[10.1167/4.8.318](https://doi.org/10.1167/4.8.318).
 - 14) † I. Fine, A.R. Wade, **A.A. Brewer**, M.G. May, D.F. Goodman, G.M. Boynton, B.A. Wandell, D.I. MacLeod. The behavioral and neural effects of long-term deprivation. (2004) *Investigative Ophthalmology and Visual Science* 45 (5), 4581.
 - 13) † A.R. Wade, **A.A. Brewer**, M. Augath, N.K. Logothetis, B.A. Wandell. (2003) Color responses in human and macaque. Society for Neuroscience Abstract. Program No. 439.9. Neuroscience 2003 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online. ≥3 citations
 - 12) † J. Liu, **A.A. Brewer**, B.A. Wandell. (2003) Human visual areas differ in their amplification of S-cone signal. Society for Neuroscience Abstracts. Program No. 819.3. Neuroscience 2003 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online.
 - 11) † **A.A. Brewer**, A.R. Wade, J. Liu, B.A. Wandell. (2003) Visual field maps in human ventral occipitotemporal cortex. Society for Neuroscience Abstracts. Program No. 818.15. Neuroscience 2003 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online.
 - 10) **A.A. Brewer**, A.R. Wade, N.K. Logothetis, B.A. Wandell. (2003) Is V4-Dorsal alive and well in human ventral occipital cortex? Stanford, CA: **Stanford Medical Student Research Symposium**.
 - 9) † **A.A. Brewer**, A.R. Wade, N.K. Logothetis, B.A. Wandell. (2002) Is V4-dorsal alive and well in human ventral occipital cortex? Society for Neuroscience Abstracts. Program No. 721.8. Neuroscience 2002 Abstracts. Orlando, FL: **Society for Neuroscience**. Online.
 - 8) † I. Fine, A.R. Wade, **A.A. Brewer**, M.G. May, G.M. Boynton, B.A. Wandell, D.I.A. MacLeod. (2002) Long-term deprivation has differential effects on color, motion and pattern processing in human visual cortex. Society for Neuroscience Abstracts. Program No. 721.24. Neuroscience 2002 Abstracts. Orlando, FL: **Society for Neuroscience**. Online.
 - 7) † S.M. Smirnakis, {**A. Brewer**, M. Schmid}, A.S. Tolias, W. Inhoffen, B.A. Wandell, N.K. Logothetis, [{}: Authors had equal contribution]. (2002) Macaque visual cortex reorganization after homonymous retinal scotoma probed by fMRI. Society for Neuroscience Abstracts. Program No. 760.2. Neuroscience 2002 Abstracts. Orlando, FL: **Society for Neuroscience**. Online.
 - 6) † R.F. Dougherty, **A.A. Brewer**, A.R. Wade, B.A. Wandell. (2002) Measurement of human visual areas across individuals. Society for Neuroscience Abstracts. Program No. 658.12. Neuroscience 2002 Abstracts. Orlando, FL: **Society for Neuroscience**. Online.
 - 5) **A.A. Brewer**, H.A. Baseler, L.T. Sharpe, A.B. Morland, H. Jägle, B.A. Wandell. (2002) Reorganization of human cortical maps caused by inherited photoreceptor abnormalities. Stanford, CA: **Stanford Medical Student Research Symposium**. (First Place Poster).
 - 4) † **A.A. Brewer**, A.R. Wade, B.A. Wandell. Visual field maps and color signals in human ventral occipital cortex. (2002) Vision Sciences Society. *Journal of Vision* 2 (7), 549. doi:[10.1167/2.7.549](https://doi.org/10.1167/2.7.549).
 - 3) † A.R. Wade, R.F. Dougherty, **A. Brewer**, B.A. Wandell. (2001) Red Priests, Fast Houses: Cortical regions involved in reading color and motion specific adjectives. Society for Neuroscience

Abstracts. Program No. 119.11. Neuroscience 2001 Abstracts. San Diego, CA: **Society for Neuroscience**. Online.

- 2) I. Fine, A. R. Wade, **A.A. Brewer**, G.M. Boynton, B.A. Wandell and D.I.A. MacLeod. (2001) Neural and functional effects of long-term visual deprivation. Long Beach, CA: **Optical Society of America, Fall Vision Meeting**. Online.
- 1) † B.A. Wandell, W.A. Press, **A.A. Brewer**, N.K. Logothetis. (2000) FMRI measurements of visual area and retinotopic maps in monkey. Society for Neuroscience Abstracts. Program No. 26.821. Neuroscience 2000 Abstracts. New Orleans, LA: **Society for Neuroscience**. Online. **≥3 citations**

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IN THE MEDIA – MEDIA COVERAGE OF RESEARCH, PUBLISHED WORK & INTERVIEWS

- 2017 *The Brain: The Story of You*. Eagleman, David. (New York, NY: Vintage) [Based on the PBS documentary, 'The Brain with David Eagleman', with **featured scientist A.A. Brewer**] ISBN-13: 978-0525433446.
- 2016 'Flipped Reality.' Westcott, John. *The Brain*, UCI Magazine. Spring 2016. (**Interview**) <https://communications.uci.edu/magazine/2016/spring/flipped-reality.html>
- 2015 'Skip "American Horror Story: Hotel," watch "The Brain with Dr. David Eagleman"' Hewitt, Michael. The Orange County Register. October 14. <http://www.ocregister.com/articles/horror-687252-eagleman-family.html>
- 2015 'Shades of Grey.' Loh, Sandra Tsing. The Loh Down on Science, Southern California Public Radio KPCC 89.3. September 3. (**Interview**) <http://www.scpr.org/programs/loh-down-on-science/2015/09/03/11947/>
- 2015 'UCI Study sheds new light on low-light vision, could aid people with retinal deficits.' Ashbach, Heather. University of California, Irvine, News. May 11. (**Interview**) <http://news.uci.edu/research/uci-study-sheds-new-light-on-low-light-vision-could-aid-people-with-retinal-deficits/>
- 2015 'Man with restored sight provides new insight into how vision develops.' BrightSurf.com. April 16. <http://www.brightsurf.com/news/headlines/108837/> ... [Man with restored sight provides new insight into how vision develops .html](#)
- 2015 'Man with restored sight provides new insight into how vision develops.' Eureka.com. April 15. http://www.eurekaalert.org/pub_releases/2015-04/uow-mwr041515.php

- 2015 'What color is the dress? UCI cognitive scientists weigh in on color perception debate.' Brewer, A.A. School of Social Sciences News, University of California, Irvine. Feb 27. (**Interview**) <http://www.socsci.uci.edu/newsevents/news/2015/2015-02-27-dress-color.php>
- 2013 'The Sounds of Research: UC Irvine scientists probe hearing and speech from a variety of angles.' Cruz, Sherri. The Orange County Register. September 30. (**Interview**) <http://chr.ss.uci.edu/wp-content/uploads/2013/10/OC-Register-9-30-2013-THE-SOUNDS-OF-RESEARCH.pdf>
- 2012 'Brewer and Elyachar receive social sciences research excellence awards.' School of Social Sciences News, University of California, Irvine. August 28. <http://www.socsci.uci.edu/newsevents/news/2012/2012-08-28-brewer-and-elyachar-receive-social-sciences-research-excellence-awards.php>
- 2012 'UCI researchers map new dimension in human auditory cortex.' Ashbach, Heather. School of Social Sciences News, University of California, Irvine. January 4. (**Interview**) <http://www.socsci.uci.edu/newsevents/news/2013/2013-01-04-uci-researchers-map-new-dimension-in-human-auditory-cortex.php>
- 2010 'Treating Blindness Takes More Than Meets The Eye.' Standen, Amy. National Public Radio (NPR). September 13. <http://www.npr.org/templates/story/story.php?storyId=129731859>
- 2010 'Teaching the Brain to See.' KQUED QUEST Radio Report. March 1. <http://science.kqed.org/quest/audio/teaching-the-brain-to-see/>
- 2010 'UCI cognitive scientists explore new frontiers in mind, brain and behavior research.' School of Social Sciences News, University of California, Irvine. February 4. <http://www.socsci.uci.edu/newsevents/events/2010/2010-02-04-uci-cognitive-scientists-explore-new-frontier.php>
- 2008 'Retrieving Sight.' Wuebker, Heather. University of California, Irvine, News. October 27. <http://news.uci.edu/features/retrieving-sight/>
- 2007 *Crashing Through - A True Story of Risk, Adventure, and the Man Who Dared to See.* Kurson, Robert (New York, NY: Random House). ISBN-13: 978-0812973686.
- 2005 'In Print and On the Air.' The Stanford Report. June 8. <http://news.stanford.edu/news/2005/june8/inprint-060805.html>
- 2005 'Plasticity and Its Limits.' *News and Views.* Sereno. M. I. *Nature.* 435, 288-289. May 19. <http://www.nature.com/nature/journal/v435/n7040/full/435288a.html>
- 2002 'Der sehende Blinde.' Von Dworschak, Manfred. *der Spiegel* (47). November 18. <http://www.spiegel.de/spiegel/print/d-25718178.html>
- 2002 'Zurück aus der Dunkelheit.' *der Spiegel Television.* November. <http://www.spiegel.de/sptv/a-225094.html>
- 2002 'Sight Unseen.' Abrams, Michael; Aliano, Alyson. *Discover Magazine*, 23(6). June 1. <http://discovermagazine.com/2002/jun/featsight>
- 2002 'Outlook.' BBC World Service Radio.
- 2002 'The man who learnt to see.' BBC Documentary. [Winner of the Royal Television Society's award for "best single programme" in 2002]. <http://eden.uktv.co.uk/blog/article/man-who-learnt-see/>

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PROFESSIONAL ACTIVITIES

SERVICE: PROFESSIONAL

PROFESSIONAL MEMBERSHIPS

2001 – present	Member, Society for Neuroscience
2012 – 2014	Member, Cognitive Neurosciences Society
2010 – 2013	Elected Chair , Vision Division, Fall Vision Meeting, Optical Society of America
2010 – 2011	Member, International Society to Advance Alzheimer Research and Treatment
2010 – 2013	National Science Foundation Peer Review Committee, ad hoc reviewer
2009 – 2010	Elected Vice-Chair , Vision Division, Fall Vision Meeting, Optical Society of America
2009 – 2014	Member, Optical Society of America
2002 – 2014	Member, Vision Sciences Society
1997 – 2002	Member, American Medical Student Association

CONFERENCES / SYMPOSIA

October, 2013	Co-Chair: Extrastriate Cortex: Computational Neuroimaging, Annual Conference, Society for Neuroscience.
October, 2013	Moderator: Measuring Cortex without Vision. Fall Vision Meeting, Optical Society of America. Houston, Texas.
October, 2012	Co-Chair: Human Extrastriate Cortex: Imaging of Functional Organization. Nanosymposium, Annual Conference, Society for Neuroscience.
July, 2012	Co-Organizer: Auditory Neuroscience Workshop: Towards a “Closed-Loop” Neuro-Computational Model of Speech Processing, University of California, Irvine <i>Workshop Proposal Funding Award:</i> School of Social Science, UCI.

September, 2011	Moderator: Connectivity Maps in the Brain. Fall Vision Meeting, Optical Society of America. Seattle, Washington.
October, 2010	Moderator: Contributed Vision Session. Fall Vision Meeting, Optical Society of America. Rochester, New York.
2010 – 2013	Elected Chair, Vision Division, Fall Vision Meeting, Optical Society of America.
2009-2010	Elected Vice-Chair, Vision Division, Fall Vision Meeting, Optical Society of America.

INVITED TALKS (INTERNATIONAL LOCATIONS IN BOLD)

28)	October, 2020	Cognitive Science Association Colloquium, University of California, Irvine <i>Computational Neuroimaging of Cortical Fields Maps in Sensory Systems</i>
27)	May, 2019	Nu Rho Psi Colloquium, University of California, Irvine <i>Computational Neuroimaging of Cortical Fields Maps in Human Visual and Auditory Cortex</i>
26)	April, 2018	Keynote Keck Speaker; Translational Pain Research Conference of the Gulf Coast Consortium. Houston, TX (Conference abstract #84) <i>Quantitative Neuroimaging approaches to measure pain representations in human cortex and subcortex</i>
25)	April, 2018	Menninger Psychiatry & Behavioral Sciences Seminar Series, Baylor College of Medicine, Houston, TX <i>Computational neuroimaging of cortical fields maps in human visual and auditory cortex</i>
24)	November, 2017	The School of Social Science Expert Speaker Series, University of California, Irvine <i>“Lifting the Hood” on Your Brain and Mind</i>
23)	October, 2016	Spinoza Centre for Neuroimaging & Utrecht University, Amsterdam, Netherlands (NextGenVis consortium) <i>Cortical plasticity of human visual function: Adapting to Reversed Visual Input</i>
22)	October, 2016	Perceptual and Cognitive Neuroscience (PCN), University Medical Center of Groningen, Groningen, Netherlands (NextGenVis consortium) <i>Cortical Visual Plasticity in Human: Adapting to Reversed Visual Input</i>
21)	September, 2016	Symposium on “Bridging the gap in ophthalmology: From physics to visual cognition”, German Ophthalmology Society (DOG), Berlin, Germany (Conference abstract #80) <i>Cortical plasticity of human visual function</i>
20)	September, 2016	Section for Clinical and Experimental Sensory Physiology, Magdeburg University, Magdeburg, Germany (NextGenVis consortium) <i>Auditory field map organization in human cortex</i>

- 18) December, 2015 Seminar Series in Neuroscience, Department of Neurobiology and Anatomy, The University of Texas Health Science Center at Houston, Houston, TX
Behavioral and Cortical Visual Plasticity in Human: Adapting to Reversed Visual Input
- 17) October, 2013 Neuroscience Seminar Series, Department of Neuroscience, The University of Texas at Austin, Houston, TX
'Clover Leaf' Clusters and Functional Plasticity In Human Visual Cortex
- 16) July, 2012 Auditory Neuroscience Workshop: Towards a "Closed-Loop" Neuro-Computational Model of Speech Processing, University of California, Irvine
Human Cortical Auditory Field Maps
- 15) February, 2012 Zhenjiang University of Technology Program, Extension Program, University of California, Irvine
Visual Perception
- 14) January, 2012 Neuroscience Seminar Series, Baylor College of Medicine, Houston, TX
'Clover Leaf' Clusters and Functional Plasticity In Human Visual Cortex
- 13) August, 2011 Visiting Tibetan Scholar Seminar Series, University of California, Irvine
Brain Disorders
- 12) August, 2011 INSIDE UCI: Freshman - Transfer Summer Start Series, University of California, Irvine
Visual Neuroscience
- 11) June, 2011 Joint Symposium on Neural Computation. San Diego, CA (Conference abstract #52)
Functional Plasticity in Human Parietal Cortex: Adapting to Reversed Visual Input
- 10) April, 2011 Brain Mapping Symposium, University of California, Irvine
'Clover Leaf' Clusters in Human Visual Cortex
- 9) March, 2011 Neurowissenschaftliche Gesellschaft: Ninth Goettingen Meeting of the German Neuroscience Society, 33rd Goettingen Neurobiology Conference. **Goettingen, Germany.** (Conference abstract #51)
Functional plasticity in adult human cortex in response to an extreme alteration of visual input
- 8) February, 2010 The School of Social Science Expert Speaker Series, Inaugural Speaker, University of California, Irvine
Inducing plasticity in normal adult human cortex
- 7) September, 2009 Fall Vision Meeting, Optical Society of America (Conference abstract #29)
A Novel Use for Visual Field Maps: Tracking Functional Plasticity in Posterior Parietal Cortex
- 6) October, 2009 The School of Social Sciences Chancellor's Club, University of California, Irvine
Inducing plasticity in normal adult human cortex
- 5) February, 2008 San Francisco Museum of Modern Art (**SF MOMA**), San Francisco, California
Take your time: Olafur Eliasson. Visual Illusions

- 4) January, 2008 Center for Cognitive Neuroscience, University of California, Irvine
Visual Field Maps: from Properties to Plasticity in Human & Macaque Cortex
- 3) January, 2006 Department of Cognitive Sciences, University of California, Irvine
Visual field map properties and plasticity
- 2) May, 2005 Workshop on “New Concepts of Cortical Retinotopy”, Vision Sciences Society
(Conference abstract #19)
Evaluation of visual field map organization in ventral occipital cortex
- 1) December, 2005 Smith-Kettlewell Eye Research Institute, San Francisco, California
New subdivisions of the human VO cluster

REVIEW ACTIVITY

JOURNALS

- ◆ 2015-present: Frontiers Journal – Frontiers in Human Neuroscience
Editorial Board, Review Editor
- ◆ 2012-present: Frontiers Journal – Frontiers in Neuroscience, Perception Science
Editorial Board, Review Editor
- ◆ 2012-present: Frontiers Journal – Frontiers in Psychology, Perception Science
Editorial Board, Review Editor
- ◆ **Ad hoc reviewer:** Alzheimer's Disease & Dementia, Cerebral Cortex, Current Biology, eLife, Frontiers in Human Neuroscience, Frontiers in Neuroscience - Perception Science, Frontiers in Psychology - Perception Science, Hearing Research, Human Brain Mapping, Journal of Cognition, Journal of Neurophysiology, Journal of Neuroscience, Journal of Vision, Journal of Visualized Experiments, NeuroImage, Neuron, Neuropsychologia, Neuroscience Research, Neuroscience, Peer J, Public Library of Science (PLoS) ONE, Proceedings of the National Academy of Sciences (PNAS)

GRANTS: MEMBER OF REVIEW BOARDS

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|----------------|---|
| 2008 – present | Annual Grant Reviewer , Alzheimer’s Association, USA |
| 11/2020 | Grant Reviewer Panelist , Study Section – Sensory and Motor Neuroscience, Cognition and Perception Fellowship [ZRG1 F02B-E], National Institutes of Health (NIH) <i>*Diversity activity: Training Programs</i> |
| 05/2020 | Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 4’] |
| 04/2019 | Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 5’] |

08/2017	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
04/2017	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 4’]
04/2017	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 3’] *Diversity activity: Training Programs
10/2016	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
04/2016	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 3’] *Diversity activity: Training Programs
10/2015	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
06/2015	Grant Reviewer Panelist (ad hoc panelist) , Study Section – Mechanisms of Sensory, Perceptual and Cognitive Processes (SPC); Early Career Reviewer Program , National Institutes of Health (NIH)
05/2015	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
04/2015	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 2’] *Diversity activity: EPSCoR States
10/2014	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
10/2014	Grant Reviewer Panelist (ad hoc panelist) , Study Section – Mechanisms of Sensory, Perceptual and Cognitive Processes (SPC); Early Career Reviewer Program , National Institutes of Health (NIH)
05/2014	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]
10/2013	Grant Reviewer Panelist , National Science Foundation (NSF) [Panel name confidential – ‘Panel 1’]

GRANTS: AD HOC REFEREE

2013 – present	Ad hoc Grant Reviewer, Medical Research Council (MRC), United Kingdom
2011 – present	Ad hoc Outside Grant Reviewer, National Institute of Health (NIH) , for grants supported by the Institute for Clinical and Translational Science (ICTS) at the University of California, Irvine
2010 – present	Ad hoc Outside Grant Reviewer, National Science Foundation (NSF) [multi-panel]
08/2017	Ad hoc Grant Reviewer, Wellcome Trust, United Kingdom
08/2017	Ad hoc Grant Reviewer, German Research Foundation (Deutsche Forschungsgemeinschaft), Germany

08/2017	Ad hoc Grant Reviewer, Austrian Science Fund (FWF), programme for funding patient oriented clinical research (KLIF), Austria
01/2017	Ad hoc Grant Reviewer, Uitzicht, Netherlands
09/2016	Ad hoc Grant Reviewer, German Research Foundation (Deutsche Forschungsgemeinschaft), Germany
05/2015	Ad hoc Grant Reviewer, Deutscher Akademischer Austauschdienst (DAAD; German Academic Exchange Service) for the P.R.I.M.E. (Postdoctoral Researchers International Mobility Experience programme), Germany

CONFERENCES

2009 – 2103	Annual Reviewer, Optical Society of America, Fall Vision Meeting
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SERVICE: CAMPUS, SCHOOL, AND DEPARTMENT

CAMPUS

ACADEMIC SENATE COMMITTEES, SUBCOMMITTEES, & TASK FORCES

2020 – 2021 <i>Upcoming</i>	Member , Campus Budget Subcommittee: Review of Functional Areas
2020 – 2021 <i>Upcoming</i>	Member, CPB Representative , Small Capital Improvement Advisory Committee
9/2019 – 8/2021	Vice-Chair , Council on Planning and Budget (CPB), University of California, Irvine
2019 – 2020	Member, CPB Vice Chair, Senate Cabinet
2019 – 2020	Member, CPB Representative , Small Capital Improvement Advisory Committee
2019 – 2020	Member, CPB Representative , Task Force on Student Supplemental Costs
9/2018 – 8/2021	Member , Council on Planning and Budget (CPB), University of California, Irvine

SOCIAL AND BEHAVIORAL INSTITUTIONAL REVIEW BOARD (IRB)

- 10/2013 – present **Full member**, Social and Behavioral Institutional Review Board (**IRB**) **Committee "C"**, University of California, Irvine
- 1/2015 – 12/2018 **Vice Chair**, Social and Behavioral Institutional Review Board (**IRB**) **Committee "C"**, University of California, Irvine
- 1/2015 – 12/2018 **Full member**, Social and Behavioral Institutional Review Board (**IRB**) **Committee "E"**, University of California, Irvine
- 7/2014 - 12/2014 **Interim Vice Chair**, Social and Behavioral Institutional Review Board (**IRB**) **Committee "C"**, University of California, Irvine
- 6/2011 Institutional Review Board: Association for Accreditation of Human Research Protection Program (AAHRPP) Site Visit, Faculty Participant. University of California, Irvine

GRANTS

- 1/2011 – present Internal and Extramural Grant Review Committee, Institute for Clinical and Translational Science (ICTS) at the University of California, Irvine
- 11/2018 – 1/2019 Internal Grant Review Committee, UCI Research Seed Funding (Track 1), University of California, Irvine
- 12/2015 – 1/2016 Internal Grant Review Committee, UCI Research Seed Funding (Track 1), University of California, Irvine
- 4/2009 Internal Grant Review Committee, Alzheimer's Disease Research Center – MIND Institute at the University of California, Irvine

OTHER

- 2013 – present Member, Center for Hearing Research, University of California, Irvine
- 2013 – present Member, Center for Cognitive Neuroscience and Engineering (CENCE), University of California, Irvine
- 12/2015 – 2018 Point of Contact, Conflict of Interest Oversight Committee, University of California, Irvine
- 8/ 2011 Building Your Career: A Discussion Panel, Transfer Student Summer Start Program, University of California, Irvine; **Invited Talk: Career Planning**
- 2008 – 2013 **Executive Committee Member**, Center for Cognitive Neuroscience (CCNS – now CENCE, above), University of California, Irvine
- 2/ 2008 Mesa Court Myth Busters, University of California, Irvine
Invited Talk: Visual Neuroscience

SCHOOL

9/2018 – present	Member, Committee on Faculty Diversity, Inclusion and Development, School of Social Sciences, University of California, Irvine
2/2018 – 6/2018	Linguistics Representative, Fundraising Advisory Committee, School of Social Sciences, University of California, Irvine
2/2017	Panelist, Dean's Leadership Society, University of California, Irvine
5/2011	Panelist, Social Sciences Responsible Conduct of Research Seminar, University of California, Irvine
6/2008	Member, Center for Cognitive Neuroscience Summer Fellowship Committee, University of California, Irvine
2007-2012	Member, Cognitive Neuroscience Concentration Committee, University of California, Irvine

DEPARTMENT

9/2017 – 2/2018	Member, Personnel Review Committee, Department of Language Science, University of California, Irvine
9/2015 – 5/2016	Member, Faculty Search Committee, Falmagne Chair(s), Department of Cognitive Sciences, University of California, Irvine
9/2015 – 2/2016	Member, Personnel Review Committee, Department of Cognitive Sciences, University of California, Irvine
9/2012 – 2/2013	Member, Personnel Review Committee, Department of Cognitive Sciences, University of California, Irvine
5/2012 – 2/2013	Member, Faculty Search Committee, Cognitive Sciences, University of California, Irvine
10/2010	Member, Personnel Review Committee, Department of Cognitive Sciences, University of California, Irvine
5/2008	Member, John I. Yellott Scholar Award Committee (Graduate student award), University of California, Irvine

STANFORD UNIVERSITY SCHOOL OF MEDICINE

2001-2002	Fifth Year Class Representative, Stanford Medical Student Association (SMSA), Stanford University School of Medicine
2000-2001	Class Secretary, Stanford Medical Student Association (SMSA), Stanford University School of Medicine

1997-1998 Admit Weekend Co-coordinator, Stanford University School of Medicine

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SERVICE: COMMUNITY OUTREACH PROGRAMS

'BRAIN DAY' ELEMENTARY SCHOOL PROGRAMS

- In development* **'Colorful Cortex Workshops'** The Brewer Lab is currently developing new neuroscience workshops for K-8 students in Orange County, CA. Undergraduates and graduate students will be trained for and deliver age-appropriate presentations for the local communities, with a focus on under-served local communities.
- 2010 – 2013 **'Brain Science Assembly,'** Alyssa A. Brewer, Gregory Hickok, Jeffrey L. Krichmar
Assemblies at **Bonita Canyon, University Park, Stone Gate, and Turtle Rock Elementary Schools** to introduce local elementary fifth grade students to the topics and career of cognitive neuroscience.
- 11/2011 **'Brain Day'** at **Steve Luther Del Amo Elementary School;** Cerritos, CA
Brewer Lab provided training in basic neuroscience in age-appropriate formats for several grades (K-2, 2-4, 4-6) by (1) introducing students to the organization of the brain; (2) discussing the brain's importance and function; and (3) reviewing brain disease and damage.

GIRLS INC.

- 3/2012 **'The Brilliant Brain': Workshop for the Eureka! Girls Inc. of Orange County.** Tustin, CA.
Special presentation on the organization, functions, and diseases of the brain by the Brewer Laboratory of Visual Neuroscience for the 6th and 7th grade girls and families.
- 7/2012 **Summer Workshop:** Week-long session for **Girls Inc. Summer Camp** by the Brewer Laboratory of Visual Neuroscience on the organization, functions, and diseases of the brain. Costa Mesa, CA

Girls Inc. is a non-profit organization that inspires girls 6-18 across the U.S. and Canada to be strong, smart, and bold through life-changing programs and experiences that help girls navigate gender, economic, and social barriers. *Girls Inc.* develops research-based informal education programs to encourage girls to take risks and master physical, intellectual and emotional challenges. The majority of *Girls Inc.* centers are located in low-income areas and provide a weekly average of 30 hours of after-school, weekend and summer activities (<http://www.girlsinc.org>). The Brewer lab, with the help of graduate and undergraduate UCI students, is setting up ongoing, annual workshops with *Girls Inc.*

SCIENCE ART

2018 – present Co-creator of the **Colorful Cortex** store on the popular artists' website RedBubble.com, where we offer hundreds of science-related artistic products that are presented with a basic explanation of the science behind our artistic representations to encourage public interest in STEM topics.
(<https://www.redbubble.com/people/colorfulcortex>)

HIGH SCHOOL

2011 – 2012 **Research Assistant Outreach Program**
Lili Do - University High School, Irvine, CA
Andrea Hagler - University High School, Irvine, CA

OTHER

1996 - 1998 Special U.S. liaison to *The United States – Japan Goodwill Regatta*

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TEACHING ACTIVITIES

TEACHING POSITIONS

INSTRUCTOR, UNIVERSITY OF CALIFORNIA, IRVINE

2018 – present	Psychology 89: Neurobiology of Cognition (lower-division undergraduate; new course created)
2017 - present	Psychology 169: Neuro Perception (upper-division undergraduate; new course created)
2009 – present	Psychology 160D / Biological Sciences N165: Brain Disorders & Behavior (upper-division undergraduate; new course created. Taught annually in academic year and summer session, ~400 students enrolled per academic year; ~100 per summer session)
2016 - 2019	Psychology 210A: Intro 1: Perception (graduate; created new version of former course) <i>Co-taught with Distinguished Professor George Sperling</i>
2008 – 2017	Psychology 262: Functional Neuroanatomy (graduate-level; new course created)
2013 – 2014	Psychology 204ABC: Professional Development Seminar (graduate-level; course revision from Psych 260ABC)
2010 – 2012	Psychology 260ABC: Seminar of Cognitive Neuroscience Skills (graduate-level; new course created)
2008 – 2010	Psychology 263ABC: Current Topics in Visual Neuroscience Research (graduate-level; new course created)
2008 – 2009	Psychology 165: Brain Disorders (upper division undergraduate-level; new course created)
2007 – 2008	Psychology 269: Functional Neuroanatomy (graduate-level; new course created)
2007 – 2008	Psychology 269: Retinotopic Mapping and Diffusion Tensor Imaging (graduate-level; new course created)

COURSE COORDINATOR, STANFORD UNIVERSITY

1997-2001	<p>Course Coordinator, Biology 44 (core Biology Laboratory), Stanford University - Plant Physiology and Animal Behavior Laboratory Systems <i>[The Course Coordinator designs and implements each lab system and teaches a quarter-long training course for the undergraduate and graduate Course Assistants for each lab system.]</i></p> <p>Course Directors: Dr. Melanie Yelton & Dr. Shyamala Malladi, Lecturers in Biology.</p> <p>Laboratories: 1) Animal Behavior (<i>Research Methods & Statistics</i>) 2) Plant Physiology (<i>Research Methods & Statistics</i>)</p>
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 TEACHING ASSISTANT, STANFORD UNIVERSITY

- 2002 Teaching Assistant, *Psychology 202 – Cognitive Neuroscience*, graduate-level
Instructor: Dr. Brian Wandell, Professor of Psychology and of Electrical Engineering, by courtesy.
- 2001 Guest Lecturer, *Psychology 196 - Contemporary Issues and Research in Psychology: Proseminar for Advanced Psychology Majors*, undergraduate-level
Instructor: Dr. Kalanit Grill-Spector, Assistant Professor of Psychology.
- 2001 Brain Day Speaker – Stanford Neuroscience students and faculty teach basic neuroscience to local middle school classes.
- 2000-2001 ‘Writing in the Major’ *Scientific Writing Tutor, Biology 44* (core Biology Laboratory), undergraduate-level
Course Directors: Dr. Melanie Yelton & Dr. Shyamala Malladi, Lecturers in Biology.
- 1998-2001 The Honors Biology Writing Tutor for Honors Biology Thesis Writers, undergraduate-level.
- 1998 Teaching Assistant, *Human Gross Anatomy*, Stanford University School of Medicine, medical/graduate-level
Instructors: Larry Mathers, M.D., Ph.D.; Eric Glasgow, M.D.; Ian Whitmore, M.D.; John Gosling, M.D.; Robert Chase, M.D.
- 1996 Course Assistant, *Human Behavioral Biology*, upper division undergraduate-level
Instructor: Dr. Robert Sapolsky, Professor of Biology, Neurology & Neurological Sciences, and Neurosurgery, by courtesy.
- 1993-1996 Course Assistant, *Biology 44 (core Biology Laboratory)*, Stanford University - Plant Physiology and Animal Behavior Laboratory Systems, undergraduate-level
Course Directors: Dr. Melanie Yelton & Dr. Shyamala Malladi, Lecturers in Biology.

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 GRADUATE STUDENT SUPERVISION

 THESIS ADVISOR

- 8/2008 – 12/2013 Brian Barton, Ph.D.
‘Mapping Human Visual and Auditory Cortex, Tracking Plasticity, and Linking

fMRI to Perception'

- ◆ (2/2014 - present) Postdoctoral Scholar, University of California, Irvine

 THESIS CO-ADVISOR

- 9/2008 – 6/2014 Derrik E. Asher, Ph.D. (advisor: Jeffrey L. Krichmar, Ph.D.)
'Action Selection and Execution with Computational Neural Networks of Neuromodulation and Sensory Integration'
- 5/2008 – 12/2011 Veronica Eckstein, Ph.D. (advisor: Bruce Berg, Ph.D.)
'A novel model for pitch perception and functional localization of attentionally modulated pitch and loudness perception'
- 2/2008 – 12/2009 Ling Lin, Ph.D. (advisor: George Sperling, Ph.D.)
'Studies of human information processing: visual memory of contrast and adaptation to reversed visual inputs'
- ◆ (2009 – present) Clinical Researcher, AccuFocus Inc.

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 POSTDOCTORAL SUPERVISION

- 3/2014 – 2/2017 Brian Barton, Ph.D.
- ◆ Postdoctoral Fellow on NSF grant #1329255
 - ◆ Supervisor: Professor Greg Hickok; Co-supervisors: Professor Kourosh Saberi & Professor Alyssa A. Brewer
- 6/2009 – 12/2010 Stefanie A. Drew, Ph.D.
- ◆ 2012 – present: Assistant Professor, California State University, Northridge
 - ◆ 2010 - 2012: Lecturer, Pomona College, Claremont, CA
 - ◆ 2010-2012: Post-doctoral Fellow, Western University of Health Sciences, Department of Psychology, College of Optometry, Pomona, CA

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 DISSERTATION, CANDIDACY, AND CONCENTRATION COMMITTEES

 DISSERTATION COMMITTEES

<i>Ongoing</i>	Alex Teghipco	Member, Dept. of Cognitive Sciences
<i>Ongoing</i>	Ricardo Azevedo	Conflict of Interest Advisor, Dept. of Neurobiology and Behavior
11/2019	Kirstie Salinas	Member, Dept. of Neurobiology and Behavior
12/2017	Howard Yang	Member, Dept. of Cognitive Sciences
8/2014	Jonathan Venezia	Member, Dept. of Cognitive Sciences
5/2014	Derrik Asher	Co-advisor , Dept. of Cognitive Sciences
12/2013	Brian Barton	Advisor , Dept. of Cognitive Sciences
6/2013	Mike Avery	Member, Dept. of Cognitive Sciences
7/2012	Lavanya Krishna	Member, Dept. of Cognitive Sciences
6/2012	Anna Lisette Isenberg	Member, Dept. of Cognitive Sciences
12/2011	Veronica Eckstein	Co-advisor , Dept. of Cognitive Sciences
5/2011	Steven Thurman	Member, Dept. of Cognitive Sciences
12/2009	Ling Lin	Co-advisor , Dept. of Cognitive Sciences
5/2009	Stefanie Drew	Member, Dept. of Cognitive Sciences
6/2008	Pamela Jeter	Member, Dept. of Cognitive Sciences

 ADVANCEMENT TO CANDIDACY COMMITTEES

9/2020	Alex Teghipco	Member, Dept. of Cognitive Sciences
9/2020	Ricardo Azevedo	Conflict of Interest Advisor, Dept. of Neurobiology and Behavior
9/2017	Kirstie Salinas	Member, Dept. of Neurobiology and Behavior
9/2015	Howard Yang	Member, Dept. of Cognitive Sciences
3/2014	Leila Feinberg	Member, Dept. of Neurobiology and Behavior
3/2014	Derek Huffman	Member, Depts. of Neurobiology and Behavior & Center for the Neurobiology of Learning and Memory
10/2013	Jonathan Venezia	Member, Dept. of Cognitive Sciences
2/2012	Anna Lisette Isenberg	Member, Dept. of Cognitive Sciences
9/2011	Derrik Asher	Co-advisor , Dept. of Cognitive Sciences
6/2011	Mike Avery	Member, Dept. of Cognitive Sciences
5/2011	Lavanya Krishna	Member, Dept. of Cognitive Sciences
4/2011	Brian Barton	Advisor , Dept. of Cognitive Sciences

3/2011	James Pooley	Member, Dept. of Cognitive Sciences
11/2010	David Bridwell	Member, Dept. of Cognitive Sciences
10/2010	Joyce Lacy	Member, Depts. of Neurobiology and Behavior & Center for the Neurobiology of Learning and Memory
10/2008	Steven Thurman	Member, Dept. of Cognitive Sciences
3/2008	Pamela Jeter	Member, Dept. of Cognitive Sciences

COGNITIVE NEUROSCIENCE CONCENTRATION COMMITTEES (2ND YEAR EXAM)

6/2018	Alex Teghipco	Member, Dept. of Cognitive Sciences
03/2015	Laris Rodriguez Cintron	Member, Dept. of Cognitive Sciences
10/2012	Alexis Craig	Member, Dept. of Cognitive Sciences
9/2012	Jack Payne	Member, Dept. of Cognitive Sciences
10/2010, 5/2011	Andrew Zaldivar (<i>exam repeated</i>)	Member, Dept. of Cognitive Sciences
11/2009	Brian Barton	Advisor , Dept. of Cognitive Sciences
11/2009	Derrick Asher	Advisor , Dept. of Cognitive Sciences
6/2009	Mike Avery	Member, Dept. of Cognitive Sciences
6/2009	Jonathan Venezia	Member, Dept. of Cognitive Sciences

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UNDERGRADUATE STUDENT SUPERVISION

UNDERGRADUATE RESEARCH OPPORTUNITIES GRANTS (UROP) & SUMMER UNDERGRADUATE RESEARCH PROGRAM FELLOWSHIPS (SURP)

9/2019 – present	Kavya Seth, <i>Are Common Indoor Carbon Dioxide Levels Correlated with Detrimental Effects on Cognition?</i>
9/2019 – present	Jarrett Ebersberger, <i>The Effects of Specific Video-Game Expertise on Visual Working Memory (Special Call: Computer Gaming)</i>
3/2019 – present	Jarrett Ebersberger, <i>Fibromyalgia: Measures of Functional Status, Quality of Life, and Disparities in Medical Care</i>
4/2019 – 6/2020	Alejandra Hernandez, <i>Is There a Correlation between Bimanual Interference Skills</i>

and Visual Working Memory?

4/2019 – 6/2020	Sarah Alloush, <i>Is there a Correlation between Nutrition and Measures of Cognitive Function?</i>
4/2019 – 6/2020	Cathleen Molloy, <i>Differences in Affective Rating of Images and Textual Descriptions of Events Compared with Measures of Emotional Dysregulation with Depression</i>
4/2018 – 6/2019	Cathleen Molloy, <i>Saliency of intrusive visual imager: somatic and perceptual markers related to depression symptom severity</i>
11/2011 – 6/2013	Golroxan (Roxan) Shoa, <i>Visual Working Memory in Cortical Visual Field Maps</i>
10/2011 – 6/2012	Brianna Penley, <i>Comparative Analysis of Corollary Discharge between Normal Subjects and Patients with Visual Hemianopsia</i>
10/2011 – 6/2012	Aaron Craddolph, <i>Comparative Analysis of Corollary Discharge between Normal Subjects and Patients with Visual Hemianopsia</i>
11/2010 – 7/2012	Melanie Humphrey, <i>Visual-Motor Adaptation to Left-Right Reversed Visual Input</i>
8/2010 – 6/2012	Jacob Redmond (Previously: Messer), <i>Structural and Functional Analysis of Human Cortical and Subcortical Visual Pathways</i>

RESEARCH ASSISTANTS

9/2019 – present	Kavya Seth
9/2019 – present	Nikki Zangenah
3/2019 – present	Jarrett Ebersberger
1/2020 – 6/2020	Suhani Shankar
4/2019 – 6/2020	Alejandra Hernandez
4/2019 – 6/2020	Sarah Alloush
4/2019 – 6/2020	Venus Zhao
4/2019 – 6/2020	Julianna Marckwordt
4/2019 – 6/2019	Amanda Jameson
4/2019 – 6/2019	Hazel Jackson
4/2019 – 6/2019	Emily Shapiro
4/2019 – 6/2019	Alyssa Whetstone
6/2018 – 6/2019	Dana Le
6/2018 – 12/2018	Tina Torabinejad
4/2018 – 6/2020	Cathleen Molloy
12/2011 – 6/2012	Elhum (Ellie) Shamshiri

11/2011 – 6/2013	Golroxan (Roxan) Shoa
10/2011 – 6/2012	Brianna Penley
10/2011 – 6/2012	Aaron Craddolph
5/2011 – 6/2012	Mark Dennison
12/2010 – 6/2011	Alex Minick
11/2010 – 7/2012	Melanie Humphrey
8/2010 – 6/2012	Jacob Redmond (Previously: Messer)
4/2010 – 6/2012	Anne Nguyen
4/2010 – 9/2010	Anthony Bonilla
4/2010 – 3/2011	Benjamin Szu
4/2010 – 1/2011	Chandni Patel
4/2010 – 1/2012	Kelly Wang
4/2010 – 6/2012	Mike Ward
4/2010 – 6/2012	William Quezada
4/2010 – 8/2011	Elizabeth Orient
4/2010 – 6/2010	Yimy Villa
4/2009 – 6/2009	Martin Dean
4/2009 – 6/2009	Elizabeth Jordan
4/2009 – 6/2009	Saman Mohseni
1/2009 – 6/2009	Christine Mikhail
12/2008 – 6/2009	Christian Herrera
9/2008 – 6/2009	Myra Engalla

OTHER RESEARCH SUPERVISION

7/2008 – 12/2008	Cindy Shih	Advisor , Directed Individual/Independent Study
6/2008 – 5/2009	Robert Coleman	Supervisor , Internship
6/2008 – 4/2009	Danting (Dantian) Liu	Supervisor , Directed Individual/Independent Study
5/2008 – 1/2009	Nick Baitoo	Supervisor , Internship

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