

# Curriculum Vitae

## Michael A. Pitts, Ph.D.

Psychology Department  
Reed College  
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## EDUCATION & PROFESSIONAL POSITIONS:

### **Associate Professor** (2015-present)

Psychology Department  
Reed College

### **Assistant Professor** (2011-2015)

Psychology Department  
Reed College

### **Postdoctoral Researcher** (2007-2011)

Neurosciences Department & Institute for Neural Computation  
University of California San Diego

### **Ph.D., Psychology** (2007)

Perceptual and Brain Sciences Program  
Colorado State University

### **M.S., Psychology** (2004)

Behavioral Neurosciences Program  
Colorado State University

### **B.A., Psychology** (2001)

Brain and Behavior Program  
University of New Hampshire

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## PUBLICATIONS (Reed students in bold):

Cohen, M., **Ortego, K.**, **Kyroudis, A.**, & Pitts, M. (2020). Distinguishing the neural correlates of perceptual awareness and post-perceptual processing. *The Journal of Neuroscience*, 40(25), 4925-4935.

Schlossmacher, I., Dellert, T., Pitts, M., Bruchmann, M., & Straube, T. (2020). Differential effects of awareness and task relevance on early and late ERPs in a no-report visual oddball paradigm. *The Journal of Neuroscience*, 40(14), 2906-2913.

Pitts, M. & **Ortego, K.** (2019). Why "no report" paradigms are an important tool for consciousness research. Commentary on Michel & Morales "Minority reports: Consciousness and the prefrontal cortex." *Mind & Language Symposium*.

Pitts, M., **Lutsyshyna, A.L.**, & Hillyard, S. (2019). Reply to Montemayor & Haladjian. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 374:20190003.

Pitts, M., **Lutsyshyna, L.**, & Hillyard, S. (2018). The relationship between attention and consciousness: An expanded taxonomy and implications for "no report" paradigms. *Philosophical Transactions of the Royal Society of London B: Biological Sciences*, 373: 20170348.

**Grauly, C.**, **Papaioannou, O.**, **Bauer, P.**, Pitts, M., & Canseco-Gonzalez, E. (2018). Hearing shapes: Event-related potentials reveal the time course of auditory-visual sensory substitution. *Journal of Cognitive Neuroscience*, 30:4, 498-513.

- Baumgartner, H., Grauly, C.,** Hillyard, S., & Pitts, M. (2018). Does spatial attention modulate the earliest component of the visual evoked potential? *Cognitive Neuroscience*, 9:1-2, 4-19.
- Baumgartner, H., Grauly, C.,** Hillyard, S., & Pitts, M. (2018). Does spatial attention modulate the C1 component? The jury continues to deliberate. *Cognitive Neuroscience*, 9:1-2, 34-37.
- Pitts, M. & Hillyard, S. (2018). Still wanted: A reproducible demonstration of a genuine C1 attention effect. *Cognitive Neuroscience*, 9:1-2, 68-70.
- Schelonka, K., Grauly, C.,** Canseco-Gonzalez, E., & Pitts, M. (2017). ERP signatures of conscious and unconscious word and letter perception in an inattentive blindness paradigm. *Consciousness & Cognition*, 54, 56-71.
- Jackson-Nielsen, M.,** Cohen, M., & Pitts, M. (2017). Perception of ensemble statistics requires attention. *Consciousness & Cognition*, 48, 149-160.
- Sandberg, K., Frässle, S., & Pitts, M. (2016). Future directions for identifying the neural correlates of consciousness. *Nature Reviews Neuroscience*, 17, 666.
- Shafto, J. & Pitts, M.** (2015). Neural signatures of conscious face perception in an inattentive blindness paradigm. *The Journal of Neuroscience*, 35(31), 10940-10948.
- Open Science Collaboration (2015). Estimating the reproducibility of psychological science. *Science*. 349, aac4716 (individual contribution: **Lewis, M. & Pitts, M.** <https://osf.io/hsntd/>)
- Yiu, L.,** Pitts, M. & Canseco-Gonzalez, E. (2015). Electrophysiological assessment of the time course of bilingual visual word recognition: Early access to language membership. *Neuropsychologia*, 75, 349-367.
- Snyder, J., Yerkes, B., & Pitts, M. (2015). Testing domain-general theories of perceptual awareness with auditory brain responses. *Trends in Cognitive Sciences*, 19(6), 295-297.
- Pitts, M., Padwal, J., **Fennelly, D.,** Martinez, A., & Hillyard, S. (2014). Gamma band activity and the P3 reflect post-perceptual processes, not visual awareness. *NeuroImage*, 101, 337-350.
- Davidson, G. & Pitts, M.** (2014). Auditory event-related potentials associated with perceptual reversals of bistable pitch motion. *Frontiers in Human Neuroscience*, 8:572, 1-10.
- Pitts, M., **Metzler, S.,** & Hillyard, S. (2014). Isolating neural correlates of conscious perception from neural correlates of reporting one's perception. *Frontiers in Psychology*, 5:1078, 1-16.
- Pitts, M. & Martinez, A. (2014). Contour integration: Sensory, perceptual, and attention-based ERP Components, Chapter 14. In G.R. Mangun (Eds.), *Cognitive Electrophysiology of Attention: Signals of the Mind* (pp.178-189). Elsevier.
- Open Science Collaboration (2014). The Reproducibility Project: A model of large-scale collaboration for empirical research on reproducibility. In V. Stodden, F. Leisch, & R. Peng (Eds.), *Implementing Reproducible Computational Research* (pp. 299-323). New York, NY: Taylor & Francis.
- Pitts, M., Martinez, A., & Hillyard, S. (2012). Visual processing of contour patterns under conditions of inattentive blindness. *Journal of Cognitive Neuroscience*, 24(2), 287-303.
- Feng, W., Martinez, A., Pitts, M., Luo, Y., & Hillyard, S. (2012). Spatial attention modulates early face processing. *Neuropsychologia*, 50(14), 3461-3468.
- Open Science Collaboration (2012). An open, big science effort to estimate the reproducibility of psychological science. *Perspectives in Psychological Science*, 7, 657-660.
- Pitts, M. & Britz, J. (2011). Insights from intermittent binocular rivalry and EEG. *Frontiers in Human Neuroscience*, 5(107), 1-6.

- Britz, J. & Pitts, M. (2011). Perceptual reversals during binocular rivalry: ERP components and their concomitant source differences. *Psychophysiology*, 48, 1489-1498.
- Pitts, M., Martinez, A., Brewer, J., & Hillyard, S. (2011). Early stages of figure-ground segregation during perception of the face-vase. *Journal of Cognitive Neuroscience*, 23:4, 880-895.
- Britz, J., Pitts, M., & Michel, C. (2011). Right parietal brain activity precedes perceptual alternation during binocular rivalry. *Human Brain Mapping*, 32(9), 1432-1442.
- Pitts, M., Martinez, A., & Hillyard, S. (2010). When and where is binocular rivalry resolved in the visual cortex? *Journal of Vision* 10(14):25, 1-11.
- Pitts, M., Martinez, A., Stalmaster, C., Nerger, J., & Hillyard, S. (2009). Neural generators of ERPs linked with Necker cube reversals. *Psychophysiology*. 46, 694-702.
- Pitts, M., Gavin, W., & Nerger, J. (2008). Early top-down influences on bistable perception revealed by event-related potentials. *Brain and Cognition*, 67(1), 11-24.
- Pitts, M., Nerger, J., & Davis, T. (2007). Electrophysiological correlates of perceptual reversals for three different types of multi-stable images. *Journal of Vision*, 7(1):6, 1-14.
- Pitts, M., Troup, L., Volbrecht, V., & Nerger, J. (2005). Chromatic perceptive field sizes change with retinal illuminance. *Journal of Vision*, 5(5), 435-443.
- Troup, L., Pitts, M., Volbrecht, V., & Nerger, J. (2005). The effect of stimulus intensity on the sizes of chromatic perceptive fields. *Journal of the Optical Society of America A.*, 22(10), 2137-2142.

#### **CONFERENCE PRESENTATIONS AND INVITED TALKS (Reed students in bold):**

- Kyroudis, A., Ortego, K.,** Hillyard, S., Cohen, M., & Pitts, M. (2019) Neural correlates of visual awareness and task-relevance in a no-report masking paradigm. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, June, London Ontario, CA.
- Ortego, K.,** Canseco-Gonzalez, E., & Pitts, M. (2019) EEG signatures of perceptual reversals of bistable visual and linguistic stimuli. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, June, London Ontario, CA.
- Pitts, M. (2019). Neural correlates of consciously perceiving task irrelevant stimuli. Invited talk at the Northern California Consciousness (NCC) meeting, March, Mind and Brain Institute, UC Davis, CA.
- Pitts, M. (2019). Isolating neural correlates of conscious perception. Invited talk at the University of Aarhus, April, Aarhus, Denmark.
- Pitts, M. (2018). Isolating neural correlates of conscious perception. Invited talk at the Max Planck Institute, October, Frankfurt, Germany.
- Pitts, M. (2018). Isolating neural correlates of conscious perception. Invited talk at the University of Nevada Las Vegas, December, Las Vegas, NV.
- Ortego, K., Pitts, M., & Canseco-Gonzalez, E.** (2018). Neural signatures of perceptual reversals of bistable visual and linguistic stimuli. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Hendry, C., Hough, A., Chesley, O., Graulty, C.,** Pitts, M., & Canseco-Gonzalez, E. (2018). Synesthesia, visual search, and the N2pc. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.

- Kyroudis, A.**, Cohen, M., & Pitts, M. (2018). Neural activity linked with visual awareness and task-relevance in a novel 2x2 design. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Pitts, M., **Hendry, C.**, **Glass, J.**, Dykstra, A., & Canseco-Gonzalez, E. (2018). EEG differences between perceiving speech versus noise in physically identical sine-wave speech stimuli. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Aksen, M., Kronemer, S., Prince, J., Ding, Z., Agarwal, A., Wolf, G., Pearlmutter, B., Coifman, R., Pitts, M., & Blumenfeld, H. (2018). Pupil dynamics as a covert measure of conscious perception in a visual no report paradigm. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Pitts, M., **Glass, J.**, Dykstra, A., & Canseco-Gonzalez, E. (2018). Isolating neural signatures of conscious speech perception with a “no-report” sine-wave speech paradigm. Talk at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, June, Krakow, Poland.
- Pitts, M. (2018). Progress in identifying the neural basis of consciousness. Invited public talk at NeuroGeeks monthly meeting, March, Portland, OR.
- Pitts, M. & **Baumgartner, H.** (2016). Does spatial attention modulate afferent activity in primary visual cortex? Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Chesley, O.**, **Grauly, C.**, Canseco-Gonzalez, E., & Pitts, M. (2016). Synesthetic grapheme-color associations are processed early in time and can guide attention during visual search. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Scarpetta, M.**, Pitts, M., & Canseco-Gonzalez, E. (2016). Neural correlates of auditory attention in an exogenous orienting task. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Pitts, M., **Davidson, G.**, **Bauer, P.** (2016). Isolating neural signatures of conscious perception with perceptually bistable stimuli. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Grauly, C.**, **Chesley, O.**, Canseco-Gonzalez, E., & Pitts, M. (2016). The timing of synesthetic color processing and its influence on attention during visual search. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Scarpetta, M.**, Pitts, M., & Canseco-Gonzalez, E. (2016). Neural correlates of auditory attention in an exogenous orienting task. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Pitts, M., Cohen, M., & **Jackson-Nielsen, M.** (2016). Inattention blindness to color ensemble statistics. Poster presented at the Vision Sciences Society (VSS) Annual Meeting, May, St Pete Beach, FL.
- Pitts, M. (2016). Inattention blindness and visual awareness without report. Invited talk at the Northern California Consciousness (NCC) meeting, March, Mind and Brain Institute, UC Davis, CA.
- Pitts, M. (2015) Neural signatures of visual word form perception in an inattention blindness paradigm. Talk at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, Paris, FR.
- Jackson-Nielsen, M.** & Pitts, M. (2015) Conscious perception of color and size ensemble statistics requires attention. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, Paris, FR.

- Grauly, C., Pitts, M., & Canseco-Gonzalez, E.** (2015) Color processing in grapheme-color synesthetes: An attentional blink ERP study. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, Paris, FR.
- Bauer, P. & Pitts, M.** (2015) Electrophysiological correlates of individual percepts arising from the bistable face-vase figure. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, Paris, FR.
- Grauly, C., Papaioannou, O., Bauer, P., Stephens, M., Sheiman, J., Pitts, M., & Canseco-Gonzalez, E.** (2015) Hearing shapes: ERPs reveal changes in perceptual processing as a result of sensory substitution training. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Macrae, F. & Pitts, M.** (2015) Does inducing belief in free will alter brain correlates of preconscious motor preparation?: A replication study. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Pitts, M., **Metzler, S., & Hillyard, S.** (2015) Isolating neural correlates of conscious perception from neural correlates of reporting one's perception: A 2x2 manipulation of visual awareness and task-relevance. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Schelonka, K., Canseco-Gonzalez, E., & Pitts, M.** (2015) Preconscious, conscious, and post-perceptual processing of visual word forms in an inattention blindness paradigm. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Pitts, M., **Shafto, J., & Schelonka, K.** (2014). Inattention blindness for shapes, faces, and words: ERP correlates of attention & awareness. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Canseco-Gonzalez, E., **Grauly, C., Papaioannou, O., Bauer, P., & Pitts, M.** (2014). Studying the time course of sensory substitution mechanisms. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Grauly, C., Papaioannou, O., Bauer, P., Pitts, M., & Canseco-Gonzalez, E.** (2014). Electrophysiological dynamics of auditory-visual sensory substitution. Poster presented at the Vision Sciences Society (VSS) Annual Meeting, May, St Pete Beach, FL. Published in: *Journal of Vision*, vol. 14, no. 10, article 438.
- Pitts, M., Martinez, A., & Hillyard, S. (2014). Contour integration and its independence from attention, awareness, and task-relevance. Poster presented at the Vision Sciences Society (VSS) Annual Meeting, May, St Pete Beach, FL. Published in: *Journal of Vision*, vol. 14, no. 10, article 65.
- Shafto, J. & Pitts, M.** (2013). Visual processing of faces during inattention blindness. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Lewis, M. & Pitts, M.** (2013). On the practice of replicating an electrophysiological study with the Center for Open Science. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Pitts, M. (2013). Isolating NCCs that are necessary and sufficient for visual awareness. Invited symposium talk with Melloni, L., Dehaene, S., & Block, N., at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, San Diego, CA.
- Shafto, J. & Pitts, M.** (2013). Neural signatures of conscious face perception: The N170 is absent during inattention blindness. Talk at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, San Diego, CA.
- Davidson, G. & Pitts, M.** (2013). Neural signatures of perceptual transitions for a novel bistable auditory stimulus. Poster presented at the Association for the Scientific Study of Consciousness (ASSC) Annual Meeting, July, San Diego, CA.

- Padwal, J., Pitts, M., **Fennelly, D.**, Martinez, A., & Hillyard, S. (2013). Contour integration: Stimulus and task-based modulations of ERPs and gamma oscillations. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Schelonka, K., Grauly, C.**, Canseco-Gonzalez, E., & Pitts, M. (2013). Event-related potentials elicited by sine-wave speech stimuli before and after speech recognition training. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Yiu, L., Krisnabai-Gitanjali, K.**, Pitts, M., & Canseco-Gonzalez, E. (2013). An electrophysiological study on the time course of bilingual word recognition. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Lewis, M.** & Pitts, M. (2013). An open science electrophysiology study of anxiety and error monitoring. Talk at the Oregon Academy of Sciences (OAS) Annual Meeting, March, Salem, OR.
- Yiu, L., Krisnabai-Gitanjali, K.**, Pitts, M., & Canseco-Gonzalez, E. (2013). An electrophysiological study on the time course of bilingual word recognition. Talk at the Oregon Academy of Sciences (OAS) Annual Meeting, March, Salem, OR.
- Pitts, M., Martinez, A., Hillyard, S. (2012). ERPs and gamma oscillations modulated by visual awareness and task-relevance. Talk at the Cognitive Science Association for Interdisciplinary Learning (CSAIL) Annual Meeting, July, Hood River, OR.
- Pitts, M., Martinez, A., Hillyard, S. (2011). Neural correlates of conscious and non-conscious visual processing. Poster presented at the Psychonomics Society (PS) Annual Meeting, November, Seattle, WA.
- Pitts, M., Martinez, A., Hillyard, S. (2011). Neural correlates of visual awareness assessed via EEG in an inattention paradigm. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Pitts, M., Martinez, A., Hillyard, S. (2010). Visual processing of seen and unseen patterns during inattentive blindness. Talk at the Society for Neuroscience (SfN) Annual Meeting, Nov, San Diego, CA.
- Pitts, M., Martinez, A., Brewer, J., Hillyard, S. (2009). Early stages of figure-ground segregation: ERP components associated with face-vase perception. Poster presented at the Vision Science Society (VSS) Annual Meeting, May, Naples, FL.
- Pitts, M., Martinez, A., Hillyard, S. (2008). Bistable perceptual reversals: ERP components and their neural generators. Poster presented at the Cognitive Neurosciences Society (CNS) Annual Meeting, April, San Francisco, CA.
- Pitts, M., Nerger, J., Stalmaster, C. (2007). The role of spatial selective attention in the perception of bistable images. Poster presented at the Vision Sciences Society (VSS) Annual Meeting, May, Sarasota, FL.
- Pitts, M., Gavin, W., Davalos, D., Nerger, J. (2006). Top-down influences on bistable perceptions revealed by ERPs. Poster presented at the Society for Psychophysiological Research (SPR) Annual Meeting, October, Vancouver, BC

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## **GRANTS & FELLOWSHIPS (Reed students in bold):**

### **Templeton World Charity Foundation (2020-2023)**

Accelerating research on Consciousness: An adversarial collaboration to test contradictory predictions of Global Neuronal Workspace and Integrated Information Theory  
 Role: Center PI (Co-center-PIs: Lucia Melloni, Liad Mudrik)

**NSF – Cognitive Neuroscience (2018-2021)**

Collaborative Research: RUI: Isolating neural mechanisms of perceptual awareness from post-perceptual processes (Award ID: BCS-1829458)

Role: PI (Co-PI: Michael Cohen)

**Templeton World Charity Foundation (2019)**

Pilot study for a novel paradigm to study consciousness

Role: collaborator (PI: Liad Mudrik)

**Templeton World Charity Foundation (2018-2019)**

Game development and pilot study for an experiment on consciousness

Role: PI (Co-PIs: Lucia Melloni, Liad Mudrik)

**Reed College Summer Research Fellowships (2012-present)**

Isolating the neural correlates of conscious vision via pattern masking and EEG (2018)

Role: Faculty Supervisor (PI: **Andrew Kyroudis**)

Distinguishing perceptual experience from its report: A brain recording experiment (2018)

Role: Faculty Supervisor (PI: **Anton Lutsyshyna**)

Effect of spatial attention on early visual processing in the primary visual cortex (2015)

Role: Faculty Supervisor (PI: **Hannah Baumgartner**)

The role of abstract beliefs and neural oscillations in motor preparation and inhibition. (2014)

Role: Faculty Supervisor (PI: **Fenner Macrae**)

Electrophysiological signatures of speech recognition. (2012)

Role: Faculty Supervisor (PI: **Kathryn Schelonka**)

**Neuroscience Research Fellowships (2019-present)**

EEG decoding analysis of relevant and irrelevant stimuli in a visual masking paradigm (2019)

Role: Faculty Supervisor (PI: **Zehui Zhao**)

**Esther Hyatt Wender Fund for Collaborative Research in Psychology (2015-present)**

Isolating neural signatures of conscious perception: A no-report, threshold-detection paradigm (2020)

Role: Faculty Supervisor (PI: **Abigail Liu**)

Isolating the neural correlates of conscious vision via pattern masking and EEG (2019)

Role: Faculty Supervisor (PI: **Andrew Kyroudis**)

Grapheme-color synesthesia in visual search tasks (2017)

Role: Faculty Supervisor (PI: **Aoife Hough**)

Auditory awareness of sine-wave speech (2017)

Role: Faculty Co-supervisor (PI: **James Glass**)

Can the P300 reveal someone's iPhone passcode? (2015)

Role: Faculty Co-supervisor (PI: **Phoebe Bauer**)

**Reed College Sabbatical Research Fellowship (2018-2019)**

Isolating neural mechanisms of conscious perception via no-report paradigms

Role: PI (Collaborator: Steven Hillyard)

**NIH – K23 Award (2016-2020)**

Neurophysiological mechanisms of cognitive and emotional control in ADHD (K23 MH108656-01A1)

Role: Collaborator (PI: Sarah Karalunas)

**Murdock College Research Program for Life Sciences (2013-2014)**

Electrophysiological dynamics of cross-modal plasticity in the lateral occipital complex due to sensory substitution training

Role: Collaborator (PI: Enriqueta Canseco-Gonzalez)

**Kavli Institute for Brain and Mind - Innovative Research Grant (2010-2011)**

Spatio-temporal neuroimaging of conscious and non-conscious visual processing

Role: PI (Collaborators: Steven Hillyard & Eric Halgren)

**Postdoctoral Fellowship (2007-2009)**

Training program in cognitive neuroscience (Grant # 5 T32 MH20002)

Institute for Neural Computation, University of California San Diego

Role: postdoctoral trainee (Sponsor: Steven Hillyard; Co-sponsor: James Brewer)

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**TEACHING:****Courses Taught at Reed (2011-present)**

- Cognitive Neuroscience (Psy 334)
- Sensation & Perception (Psy 381)
- Neuroscience of Consciousness (Psy 217)
- Attention & Consciousness Research (Psy 417)
- Introduction to Psychology (Psy 121)
- Senior Thesis (Psy 470)

**Teaching Experience Prior to Reed:**

- Physiological Psychology Laboratory (2005-2007)
  - Sensation and Perception Laboratory (2003-2005)
  - Sensation and Perception Guest Lecturer (2006)
  - Introductory Psychology Guest Lecturer (2003)
  - History and Systems of Psychology GTA (2002)
  - Introduction to Psychology GTA (2002)
  - Visual Perception UTA (2000)
  - Logic UTA (1999)
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**RESEARCH TRAINING:****Electroencephalography & Event-related potentials (EEG/ERP)**

- EEG Decoding Workshop, hosted by Steve Luck, UC Davis (2019)
- ERP Boot Camp, hosted by Steve Luck at Reed College (2016)
- Post-doctoral research in Steve Hillyard's ERP Lab, UCSD (2007-2011)
- Graduate training, Perceptual & Brain Sciences Program, Colorado State University (2005-2007)
- ERP Boot Camp, hosted by Steve Luck at the SPR Annual Meeting (2006)

**Brain Imaging (fMRI) & Magnetoencephalography (MEG)**

- Post-doctoral research in Eric Halgren's Multimodal Imaging Lab, UCSD (2010-2011)
- Post-doctoral training in Jim Brewer's fMRI Lab, UCSD (2007-2009)
- fMRI methods training with Frank Haist, David Dubowitz, & Richard Buxton, UCSD (2007)

**Psychophysics**

- Graduate training in Jan Nerger's Lab, Colorado State University (2002-2005)
- Undergraduate training in Ken Fuld's Lab, University of New Hampshire (2000-2001)