

CURRICULUM VITAE  
Geoffrey Potts, Ph.D.  
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**Personal Information**

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**Educational History**

University of Oregon	Ph.D.	1994	Psychology (cognitive)
Dissertation: Neural systems of visual target detection: Human event-related potential studies. (Advisors: Tucker, DM, Posner, MI)			
University of Oregon	MS	1991	Psychology
University of Oregon	BA	1989	Psychology (magna cum laude)

**Professional Positions**

8/10 - present Associate Professor of Psychology  
University of South Florida, Department of Psychology

9/12 – 8/13 Visiting Professor  
University of Arizona, Department of Psychology

8/06- 7/10 Assistant Professor of Psychology  
University of South Florida, Department of Psychology

7/98-6/06 Assistant Professor of Psychology  
Rice University, Department of Psychology

7/97-6/98 Instructor of Psychology  
Harvard Medical School, Department of Psychiatry

9/96-6/97 Clinical Fellow in Psychology  
Harvard Medical School, Department of Psychiatry

9/94-8/96 Clinical Research Training Fellow  
Harvard Medical School, Department of Psychiatry

9/94 – 6/98 Research Associate  
Veterans Administration Medical Center, Brockton, MA

### **Special Training**

9/94-6/96: Clinical Research Training Program, Harvard Medical School, Department of Psychiatry

2/95: Visiting Fellowship Program in Functional Magnetic Resonance Imaging, Massachusetts General Hospital, Department of Radiology

9/91-5/93: Emotion Research Training Program, University of Oregon, Department of Psychology

### **Awards and Honors**

Sakura Award for best presentation, Pan-Pacific Conference on Brain Topography, Tokyo, 1996

Phi Beta Kappa, University of Oregon, 1989

Cuthbertson Scholarship, University of Oregon, 1988

### **Research Funding**

#### Completed

NSF MRI 1428999, Acquisition of a Dual Acquisition Station Dense Sensory Array EEG/ERP System; 8/1/14 – 7/31/17 (Potts: PI; Cimino, Donchin, Dube: CIs)

Physiological markers of combat-related PTSD and mTBI (USF/VA Internal Award, Salomon: PI; Potts: CI)

NIH R21 DA023273: Reward Sensitivity and Incentive Salience in Cigarette Smokers; 2/15/2008 – 1/31/2010; (Potts: PI)

NIH R21 DA026544: Error Sensitivity as a Predictor of Nicotine Withdrawal & Smoking Cessation. Funded; (Cinciripini: PI, Potts: Co-investigator)

NIH F31 DA018498: Impulsivity and neural processing of rewards; 3/05 – 2/07; (Laura Martin: Fellow; Potts: Sponsor)

NIH RO1 DA14073: ERP studies of neural systems of salience evaluation; 6/01-11/05; (Potts: PI)

NARSAD Young Investigators Award: The Visual N2b Deficit in Schizophrenia as an Index of Disruption in Communication Between Posterior Systems of Stimulus Representation and Frontal Systems of Attention; \$59,816 (Potts, PI)

NSF: Web-based multimedia textbook in the behavioral neurosciences. (D. Lane, PI; Potts: co-investigator)

Livingston Award, Harvard Medical School: An ERP Study of Spatial and Object selection in Schizophrenia; \$10,000 (Potts, PI)

NIH RO1 - Neurophysiologic Studies of Schizophrenia (R.W. McCarley, PI; Potts: co-investigator)

Veterans Administration - Research Center for Basic Science and Clinical Studies of Schizophrenia (R.W. McCarley, PI; Potts: co-investigator)

### **Professional Associations**

Cognitive Neuroscience Society  
Society for Psychophysiological Research

### **Editorial Activities**

#### Ad Hoc Editorial Consultant

Alcohol and Alcoholism  
American Journal of Psychiatry  
Archives of General Psychiatry  
Behavioural Brain Research  
Biological Psychiatry  
Biological Psychology (named “Top Reviewer”, 2009)  
BioMed Central – Neuroscience  
Brain Research  
Child Development  
Cognitive Neuropsychology  
Clinical Neurophysiology  
Emotion  
Journal of Cognitive Neuroscience  
Journal of Neuroscience  
Journal of Psychophysiology  
Learning & Memory  
Neuropsychologia  
Neuroreport  
Neuroscience Letters

Perceptual & Motor Skills  
Personality and Individual Differences  
Psychophysiology  
Schizophrenia Bulletin  
Social, Affective, and Cognitive Neuroscience

## **Educational Activities**

### Courses Taught

Abnormal Behavior (undergrad)  
Biopsychology/Physiological Psychology/ Brain Mechanisms of Behavior  
(undergrad & grad)  
Learning and Memory (undergrad & grad)  
Perception (undergrad & grad)  
The Nature of Emotion Seminar (undergrad & graduate)  
Methods in Cognitive Neuroscience (graduate)  
Topics in Neuroscience Seminar (graduate)

### Research Supervision

#### Undergraduate Honors Students (selected):

Pierre Azzam: Psychology Honors, “Spatial attention and inhibition in ADHD”  
(currently assistant professor, psychiatry, University of Pittsburgh Medical  
Center)  
Gina Ingersoll: Psychology Honors, “Event-related correlates of anxiety”  
Neel Singhal: Cognitive Science and Rice Undergraduate Scholars Program  
(RUSP) Honors, “Gender differences in mental rotation” (presented at Society for  
Psychophysiological Research)  
Cynthia Browne: Century Scholar’s Program, “Evaluation of stimulus relevance”  
Emi Nomura: Cognitive Science Honors, “Relationship between neural systems  
of salience evaluation and response monitoring” (formerly postdoctoral fellow,  
University of California Berkeley, with Mark D’Esposito; currently Social Data  
Team, Hearsay Social)  
Brianna Conrey: Cognitive Science and RUSP Honors, “ERP study of dialect and  
phoneme perception” (presented at Society for Psychophysiological Research and  
published in Brain & Cognition; received PhD in Cognitive Psychology from  
Indiana University; currently Director of Special Projects, American Institute of  
Mathematics)  
Lingo Lai: Psychology and RUSP Honors, “ERP study of working memory in  
patients with Parkinson’s disease” (currently Assistant Professor, West Virginia  
School of Medicine, Dept. of Ophthalmology and Visual Science)  
William Watson: USF Psychology Honors, “Personality and Brain Activity in  
Social Poker Players” (medical student, New York Medical College, Valhalla  
NY)  
Neha Pandit: USF Psychology Honors, “Cue Reactivity in Smokers: An ERP  
Study”

Melissa Silva: USF Honors “Impulsivity and Error Monitoring” (currently medical student, University of South Florida)

Michelle Rogers: USF Psychology Honors, “Impulsivity and the Reward System: Negative and Positive Urgency are Associated with Neural Reward Sensitivity” (The George Washington University, Candidate, Master of Public Health in Health Promotion)

Andrew Vieira: USF Honors, “Neural Response to Aversive and Appetitive Stimuli in Anxiety and Depression” (starting Vanderbilt School of Medicine, Fall 2020)

Steven Ford: “Independent Effects of Reward on Attention” (In psychology graduate school at UCF)

Kallen Hager: “Implicit and Explicit Attitudes Toward LGBT Individuals – An ERP Examination Using Responses to Emotional Images and Reward

Elizabeth (Sofia) Padron: “Mindfulness Practice and Healthy Food Choice”

### Graduate students

#### Current:

Kipras Varkala (1<sup>st</sup> year)

Rachel Gaynor (1<sup>st</sup> year)

#### Former:

Xiaoqian (Sophy) Yu: Post-Doctoral Fellow, Cincinnati Children's Hospital Medical Center

Constanza (Tanya) DeDios: Postdoctoral fellow, Center for Neurobehavioral Research on Addiction, Department of Psychiatry and Behavioral Sciences, University of Texas Health Science Center/McGovern Medical School

Heather Soder: Postdoctoral fellow, Center for Neurobehavioral Research on Addiction, Department of Psychiatry and Behavioral Sciences, University of Texas Health Science Center/McGovern Medical School

Delia Kothmann Pascos: Professor Psychology, St. Edwards University, Austin, TX

Laura Martin: Associate Professor Population Health, Associate Director of fMRI, Hoglund Brain Imaging Center, University of Kansas Medical Center

Susan Wood: Clinical neuropsychologist, Chair, Department of Neuropsychology, Sanford Health Neuroscience Clinic, Fargo ND

### Secondary/outside committee member

*Masters Committees*

Ruth Wallace (Rice, Cognitive Psychology)  
Yan Chen (Rice, Cognitive Psychology)  
Catherine Balderston (USF, Clinical Psychology)  
Erika Litvin (USF, Clinical Psychology)  
Jason DeGroff (USF, Communication Sciences)  
Glen Forester (USF, Cognitive/Neural/Social)  
John Ray (USF, Clinical Psychology)  
Bethany Morris (USF, Clinical Psychology)  
Siri Kamp (USF, Cognitive/Neural/Social)  
Ross Avila (USF, Clinical Psychology)  
Kaleena Burgis (USF, Cognitive/Neural/Social)  
Holly Westfall (USF, Cognitive/Neural/Social)  
Andrea Ranieri (USF, Cognitive/Neural/Social)  
Troy Webber (USF, Clinical Psychology)  
Daniell Blinkoff (USF, Clinical Psychology)  
John Correa (USF, Clinical Psychology)  
Claire Corey (USF, Clinical Psychology)  
Julia McDonald (USF, Clinical Psychology)  
Sara Milligan (USF, Cognitive/Neural/Social)  
Jon Han Lee (USF, Cognitive/Neural/Social)

*Ph.D. Committees*

Geri Hanten (Rice, Cognitive Psychology)  
Denise Wu (Rice, Cognitive Psychology)  
Chris Hamilton (Rice, Cognitive Psychology)  
Eugena Pixley (University of Texas – Houston: Neuroscience)  
Keith Kline (Baylor College of Medicine: Neuroscience)  
Michelle LeVasseur (USF, Clinical Psychology)  
Lauren Bylsma (USF, Clinical Psychology)  
Erika Litvin (USF, Clinical Psychology)  
Elizabeth Fuller (USF, Cognitive Neural Social Psychology)  
Melanie Bozzay (USF, Clinical Psychology)  
Mark Lowry (USF, Cognitive Neural Social Psychology)  
Lelani Kellogg (USF, Cognitive Neural Social Psychology)  
John Correa (USF, Clinical Psychology)  
Alexis Hindash (USF, Clinical Psychology)  
Jason Oliver (USF, Clinical Psychology)  
Alvin Jin (USF, Cognitive Neural Social Psychology)  
John Ray (USF, Clinical Psychology)  
Bethany Morris (USF, Clinical Psychology)  
Deyar Asmaro (Simon Fraser University, Clinical Psychology, Outside Member)  
John Correa (USF, Clinical Psychology)  
Sara ‘Leilani’ Kellogg (USF, Cognitive Neural Social Psychology)  
Andrea Ranieri (USF, Cognitive Neural Social Psychology)  
Ke Tong (USF, Cognitive Neural Social Psychology)

Ben Luongo (Interdisciplinary Global Studies; defense external chair)  
Isabel Taake (Psychology, Simon Fraser University, external member)

Post-doctoral fellows

Estate Sokhadze: Attention and behavior monitoring in substance abuse (currently Research Professor, University of South Carolina School of Medicine, Department of Biomedical Sciences)

Mary E. (Reeni) George: Abnormal neural systems of motivation in addiction (currently Assistant Professor, Department of Pediatrics, Baylor College of Medicine)

Chin-Lung Yang: ERP studies of language and working memory (R. Martin primary advisory; currently research assistant professor, University of Hong Kong)

Emese Nagy: Disrupted emotion processing in autism (K. Loveland primary advisor; currently Lecturer, University of Dundee)

Philip Burton: ERP and fMRI studies of attention and reward processing (jointly supervised, currently neuroimaging staff scientist, University of Minnesota)

Arzu Özkan Ceylan (faculty member in Psychology, Hacettepe University, Ankara, Turkey)

**Service Activities**

National

2016	NIH Emerging Technologies & Training in Neurosciences review panel (ZRG1 F02A -K(20)L)
2013	NIH Emerging Technologies & Training in Neurosciences review panel (ZRG1 F02a J-20)
2012	NIH Behavioral Neuroscience Special Emphasis Review Panel (ZGM1 MBRS-8)
2011	NIH Review of Minority Biomedical Research Support Applications (ZGM1 MBRS-8 (BH))
2009	NIH conflict-of-interest review panel (ZRG1 RPHB-E 02 M: Development and Social Psychology) NIH conflict-of-interest review panel (ZRG1 RPHB-A 02 M: Risk Prevention and Health Behavior) NIH special emphasis panel (ZDA1 SXC-E 03: Behavioral Pharmacology and Genetics: Translating and Targeting Individual Differences)

NIH special emphasis panel (ZDA1 KXH-C 07): Brain Imaging of Negative Reinforcement in Humans)

2006 NIH special emphasis panel (ZRGI SBIB-J 51 R: Methods of In Vivo Imaging & Bioengineering)

2002 NSF ad hoc reviewer

2001 NIH special review committee

1996-1998 Executive Committee, 12<sup>th</sup> triennial conference on cognitive event-related potentials of the brain (EPIC XII)

#### University

2015 - Faculty Development Committee

2010- Core Facilities Committee (USF)

2011 Technology Fee Projects Requirements: Apple subcommittee

2009 & 2011 Discipline committee, Distinguished University Professor (USF)

2006 Salary Equity Committee (Rice)

2002-2005 Century Scholars Program advisor (Rice)

2001-2005 Rice Undergraduate Scholars Program advisor (Rice)

2000-2002 Cognitive Science advisor (Rice)

1998-2005 Neurosciences at Rice initiative (Rice)

1999-2000 Social Sciences advisor (Rice)

#### Departmental

2022 - Graduate Program Committee (Chair)

2019 - 2022 Undergraduate Program Committee (Chair, USF)

2008- 2019 Undergraduate Program Committee (USF)

2013- 14 Executive Committee

2013 - 14 Undergraduate Program Committee (Chair, USF)

2009 Online Course Standards Committee (Chair, USF)

2007-8 Graduate Program Committee (USF)

2007 Applied Cognitive Search Committee (USF)

2000-2004 Undergraduate Committee (Rice)

1999-2004 Faculty Search Committees (Rice)

1998-2006 Colloquium Committee (Rice)

### **Bibliography**

#### Articles (\*student authors)

1. Salgairi, GC, Potts, GF, Schmidt, J, Chan, CC, Spencer, CC, Bedwell, JS. (2021). Event-related potentials to rare visual targets and negative symptom severity in a transdiagnostic psychiatric sample. *Clinical Neurophysiology*, 132, 1526 - 1536. <https://doi.org/10.1016/j.clinph.2021.02.398>
2. Soder, H. E.\*, Suchting, R., & Potts, G. F. (2020). Electrophysiological responses to appetitive and aversive outcomes: A comparison of college drinkers and non-



- drinkers. *Neuroscience Letters*, 714, 134549.  
<https://doi.org/10.1016/j.neulet.2019.134549>
3. Soder, H.E.\*, Webber, T.R.\*, Bornovalova, M.A., Park, J.Y., & Potts, G.F., (2019). A Test of Dopamine Hyper- and Hyposensitivity in Alcohol Use. *Addictive Behaviors*, 90, 395-401. <https://doi.org/10.1016/j.addbeh.2018.12.002>
  4. Webber, TA\*, Soder, HE\*, Potts, GF, Park, JY, Bornovalova, MA (2018). Preliminary Evidence that Digit Length Ratio (2D:4D) Predicts Neural Response to Delivery of Motivational Stimuli. *Biological Psychology*, 132, 91-91.  
<https://doi.org/10.1016/j.biopsycho.2017.11.008>
  5. Soder, HE\*, & Potts, GF (2018). Medial frontal cortex response to unexpected motivationally salient outcomes. *International Journal of Psychophysiology*, 132, 268-276. doi:<https://doi.org/10.1016/j.ijpsycho.2017.11.003>
  6. Oliver, JA\*, Evans, DE, Addicott, MA, Potts, GF, Brandon, TH, Drobles, DJ (2017). Nicotine Withdrawal Induces Neural and Behavioral Deficits in Reward Processing. *Nicotine & Tobacco Research*, 19(6), 686-693.
  7. Johnson, PL\*, Potts, GF, Sanchez-Ramos, J, Cimino, CR (2017). Self-reported impulsivity in Huntington's disease patients and relationship to executive dysfunction and reward responsiveness. *Journal of Clinical and Experimental Neuropsychology*, 39(7), 694-706.
  8. Webber, TA\*, Soder, HE\*, Potts, GF, Park, JY, Bornovalova, MA (2017). Neural Outcome Processing of Peer-Influenced Risk-Taking Behavior in Late Adolescence: Preliminary Evidence for Gene × Environment Interactions. *Experimental and Clinical Psychopharmacology*, 25(1), 31-40.
  9. Soder, HE\*, de Dios, C\*, Potts, GF (2016). The Role of the Neural Reward System in Attention Selection. *Neuroreport*, 27(10), 787-80.
  10. Bedwell, J.S., Potts, G.F., Gooding, D.C., Trachik, B.J., Chan, C.C., & Spencer, C.C. (2016). Transdiagnostic psychiatric symptoms and event-related potentials following rewarding and aversive outcomes. *PLOS ONE*, 11(6): e0157084, <http://dx.doi.org/10.1371/journal.pone.0157084>
  11. Kamp, SM\*, Potts, GF, Donchin, E (2015). On the Role of Distinctiveness and Semantic Expectancies in Episodic Encoding of Emotional Words. *Psychophysiology*, 52(12), 1599-1609.
  12. Potts, GF, Litvin, EB\*, Drobles, DJ, Evans, DE (2014). Neural Reward and Punishment Sensitivity in Cigarette Smokers. *Drug and Alcohol Dependence*, 144, 245–253.

13. Litvin, EB\*, Potts, GF, Evans, DE, Drobles, DJ (2013). Cue Reactivity in Smokers: An Event-Related Potential Study. *International Journal of Psychophysiology*, 90(2),258-64.
14. Potts, GF (2011). Impact of Reward and Punishment Motivation on Behavior Monitoring as Indexed by the Error Related Negativity. *International Journal of Psychophysiology*, 81, 324-331.
15. Martin, LE\*, Potts, GF (2011). Medial Frontal Event Related Potentials and Neural Reward Prediction: Do Responses Matter? *Brain & Cognition*, 7, 128-134.
16. Potts, GF, Martin, LE\*, Kamp, SM\*, Donchin, E (2011). Neural Response to Action and Reward Prediction Errors: Comparing the Error Related Negativity to Behavioral Errors and the Feedback Related Negativity to Reward Prediction Violations. *Psychophysiology*, 48(2), 218-228.
17. Martin, LE\*, Potts, GF, Burton, P\*, Montague, PR (2009). Electrophysiological and Hemodynamic Responses to Reward Prediction Violation. *Neuroreport*, 20(13), 1140-1143.
18. Martin, LE\*, Potts, GF (2009). Impulsivity in Decision-Making and Reward Processing: An Event-Related Potential Investigation. *Personality and Individual Differences*, 46, 303-308.
19. Potts, GF, Wood, SM\*, Kothmann, D\*, Martin, LE\* (2008). Parallel perceptual enhancement and hierarchic relevance evaluation in an audio-visual conjunction task. *Brain Research*, 1236, 126-139.
20. Wood, SM\*, Potts, GF, Martin, LE\*, Kothmann, D\*, Hall, JF, Ulande, JB. (2007). Disruption of auditory and visual attention in schizophrenia. *Psychiatry Research: Neuroimaging*, 156(2), 105-116.
21. Stotts, AL, Potts, GF, Ingersoll, G\*, George, MRM\*, Martin, LE\* (2006). Preliminary feasibility and efficacy of a brief motivational intervention with psychophysiological feedback for cocaine abuse. *Substance Abuse*, 27(4), 9-20.
22. Potts, GF, Martin, LE\*, Burton, P\*, Montague, PR (2006). When things are better or worse than expected: Medial frontal cortex and the allocation of processing resources. *Journal of Cognitive Neuroscience*, 18(7), 1111-1119.
23. Wilson, RK, Stevenson, R, Potts, GF (2006). Brain activity in the play of dominant strategy and mixed strategy games. *Political Psychology*, 27(3), 459-478.

24. Wood, SM\*, Potts, GF, Hall, JF, Ulanday, JB, Netsiri, C (2006). Event-related potentials to auditory and visual selective attention in schizophrenia. *International Journal of Psychophysiology*, 60(1), 67-75.
25. Potts, GF, George, MR\*, Martin, LE\*, Barratt, ES (2006). Reduced punishment sensitivity in neural systems of behavior monitoring in impulsive individuals. *Neuroscience Letters*, 397(1-2), 130-134.
26. Conrey, B\*, Potts, GF, Niedzielski, NA (2005); Effects of dialect on merger perception: ERP and behavioral correlates. *Brain & Language*, 95(3), 435-449.
27. Potts, GF (2004). An ERP index of the task relevance evaluation of visual stimuli. *Brain & Cognition*, 56(1), 5-13.
28. Martin, LE\*, & Potts, GF, (2004). Reward Sensitivity in Impulsivity. *Neuroreport*, 15(9), 1519-1522.
29. George, MRM\*., Potts, GF, Kothman, D\*, Martin, L\*, Mukundan, CR, (2004). Frontal deficits in alcoholism: An ERP study. *Brain and Cognition*, 54(3), 245-247.
30. Potts, GF, Patel, SH\*, Azzam, PN\* (2004). Impact of instructed relevance on the visual event-related potential. *International Journal of Psychophysiology*, 52(2), 197-209.
31. Nagy, E, Potts, GF, Loveland, KA (2003). Sex related differences in the detection of stimulus deviancy. *International Journal of Psychophysiology*, 48, 285-292.
32. O'Donnell, BF, Potts, GF, Nestor, PG, Stylianopoulos, KC, Shenton, ME, McCarley, RW (2002). Spatial frequency discrimination in schizophrenia. *Journal of Abnormal Psychology*, 111(4), 620-625.
33. Potts, GF, O'Donnell, BF, Hirayasu, Y, & McCarley, RW (2002). Disruption of neural systems of visual attention in schizophrenia. *Archives of General Psychiatry*, 59(5), 418-424.
34. Potts, GF & Tucker, DM (2001). Frontal evaluation and posterior representation in target detection. *Cognitive Brain Research*, 11(1), 147-156.
35. Gugino, LD, Aglio, LS, Potts, GF, Grimson, WEL, Shenton, ME, Kikinis, R, Alexander, E, Gonzalez, AA, Romero, R, Ettinger, GJ, Cote, WA, Leventon, ME, Black, PM (2001). Perioperative use of transcranial magnetic stimulation. *Techniques in Neurosurgery*. 7(1), 33-51.
36. Kwon, J-S, O'Donnell, BF, Wallenstein, GV, Greene, RW, Hirayasu, YO, Nestor, PG, Hasselmo, ME, Potts, GF, Shenton, ME, & McCarley, RW (1999). Gamma

- frequency range abnormalities to auditory stimulation in schizophrenia. *Archives of General Psychiatry*, 56 (11), 1001-1005.
37. O'Donnell, BF, McCarley, RW, Potts, GF, Salisbury, DF, Nestor, PG, Hirayasu, YO, Niznikiewicz, MA, Barnard, J, Shen, ZJ, Weinstein, DM, Bookstein, F, & Shenton, ME (1999). Identification of neural circuits underlying P300 abnormalities in schizophrenia. *Psychophysiology*, 36 (3), 388-398.
  38. Potts, GF, Hirayasu, YO, O'Donnell, BF, & McCarley, RW (1998). High density recording and topographic analysis of the auditory oddball event-related potential in schizophrenia. *Biological Psychiatry*, 44, 982-989.
  39. Hirayasu, Y, Potts, GF, O'Donnell, BF, Kwon, J-S, Arakaki, H, Akdag, SJ, Shenton, ME, McCarley, RW (1998). The auditory mismatch negativity in schizophrenia: A topographic evaluation with a high density recording montage. *The American Journal of Psychiatry*, 155 (9), 1282-1284.
  40. Potts, GF, Gugino, LD, Leventon, ME, Grimson, WEL, Kikinis, R, Cote, W, Alexander, E, Anderson, JE, Ettinger, GJ, Aglio, LS, & Shenton, ME (1998). Visual hemifield mapping using transcranial magnetic stimulation coregistered with cortical surfaces derived from magnetic resonance images. *Journal of Clinical Neurophysiology*, 15 (4), 344-350.
  41. Potts, GF, Dien, J, Hartry-Speizer, AL, McDougal, LM, & Tucker, DM (1998). Dense sensor array topography of the event-related potential to task-relevant auditory stimuli. *Electroencephalography and Clinical Neurophysiology*, 105, 444-456.
  42. Ettinger, G, Leventon, M, Grimson, W, Kikinis, R, Gugino, L, Cote, W, Sprung, L, Aglio, L, Shenton, M, Potts, G, Hernandez, V, & Alexander, E (1998). Experimentation with a transcranial magnetic stimulation system for functional brain mapping. *Medical Image Analysis*, 2(2), 133-142.
  43. Dien, J, Tucker, DM, Potts, GF, & Hartry-Speiser, A (1997). Localization of Auditory Evoked Potentials Related to Selective Intermodal Attention. *Journal of Cognitive Neuroscience*, 9 (6) 799-823.
  44. McCarley, RW, O'Donnell, BF, Niznikiewicz, MA, Salisbury, DF, Potts, GF, Hirayasu, Y, Nestor, PG, Shenton, ME (1997). Update on electrophysiology in schizophrenia. *International Review of Psychiatry*, 9, 373-386.
  45. Potts, GF, Liotti, M, Tucker, DM, & Posner, MI (1996). Frontal and inferior temporal cortical activity in visual target detection: Evidence from high spatially sampled event-related potentials. *Brain Topography*, 9, 3-14

46. Chung, G, Tucker, DM, West P, Potts, GF, & Liotti, M (1996). Emotional expectancy; Brain electrical activity associated with an emotional bias in interpreting life events. *Psychophysiology* , 33, 218-233.
47. Tucker, D.M., Liotti, M., Potts, G.F., Russell, G.S., & Posner, M.I. (1994). Mapping the working brain: Spatiotemporal analysis of brain electrical fields. *Human Brain Mapping*, 1, 134-152.

### Chapters

1. Gugino, LD, Potts, GF, Aglio, LS, Alexander, E, Grimson, E, Kikinis, R, Shenton, M, Black, PM, Ettinger, GJ, Cote, WA, Leventon, M, Sprung, LJ (1999). Localization of eloquent cortex using transcranial magnetic stimulation. In E. Alexander III and R.J. Maciunas (Eds.). *Advanced Neurosurgical Navigation*. New York, Thieme.
2. Hirayasu, Y, Potts, GF, O'Donnell, BO, Kwon, JS, McCarley, RW (1998). A topographic study of auditory mismatch negativity and P300 in schizophrenia. In Y. Koga, K. Nagata, and K. Hirata (Eds). *Brain Topography Today*. Amsterdam, Elsevier.
3. Tucker, DM, Chung, G, West, P, Potts, GF, & Liotti, M (1997). Emotional expectance: Psychometric and brain electrical studies of mood-congruent bias. In M. Spitzer & B. Maher (Eds.), *Studies in Experimental Psychopathology*. Cambridge, Cambridge University Press.
4. Ettinger, GJ, Grimson, WEL, Leventon, ME, Kikinis, R, Gugino, V, Cote, W, Karapelou, M, Aglio, L, Shenton, M, Potts, G, Alexander, E (1996). Non-invasive functional brain mapping using registered transcranial magnetic stimulation. *Proceedings of IEEE Workshop on Biomedical Image Analysis*, San Francisco, 32-41.

### Manuscripts Under Review or Invited Revision

Xiaoqian, Yu, Vinci, C, Potts, GF (in revision). A Brief Mindfulness Intervention Improves Electrophysiological Markers of Attention: The Moderating Role of Inattention.

Webber, H.E., de Dios, C., White, K., & Potts, G.F. (in revision). Effects of valence, prediction, and delivery of emotional images on the feedback-related negativity/reward positivity.

### Registered Report In Progress (invited revision)

Verona, E, Chen, H, Hall, B, Rocha, HA, Potts, G, Gaynor, R, Varkala, K, Larson, MJ, Tamnes, CK, Pfabigan, DM, Wieser, MJ, Yang, Y-F, Hilger, K, Stegmann, Y, Senderecka, M, Grabowska, A, Kalamala, P, Alenina, E, Lihanov, M, Zakharov, I, Carbine, KA, Mushtaq, F, Pavlov, YG, Clayson, PE. (in progress). Fear, Anxiety, and the Error-Related Negativity: A Registered Report of a Multi-Site Replication Study. *Cortex*.

### Selected Talks

Bedwell, JS, Potts, G, Gooding, TC, Trachik, BJ, Chan, CC, Spencer, CC (2015). A Transdiagnostic Examination of the Neurophysiology of Reward Processing in Schizophrenia-Spectrum and Bipolar Disorders. Society for Research in Psychopathology, New Orleans.

Neural Reward Bias in Cigarette Smokers (Oct. 2009). Presented in the symposium *Using Event-Related Potentials To Investigate Affective Processes In Smokers*, Society for Psychophysiological Research, Berlin.

Attention and expected value in the brain (Nov. 2007). Neuroinformatics Center, University of Oregon, Eugene, OR

Medial frontal cortex and the evaluation of items and outcomes (Sept. 2005). *Cognitive Approaches to Addiction: Progress and Pitfalls*. National Institute of Drug Abuse, Bethesda, MD,

When things are better (or worse) than expected: Neural systems of motivation and the allocation of processing resources (Mar. 2005). University of Nevada at Las Vegas, Las Vegas, NV.

Medial prefrontal cortex and the allocation of attention to task-relevant items (Feb. 2005). North Dakota State University, Fargo, ND

Neural systems of reward in stimulus evaluation and behavior monitoring (Feb. 2004). Vanderbilt University, Nashville, TN.

Auditory and visual attention disruption in schizophrenia (Oct. 2003). University of Texas Health Sciences Center, Houston.

Stimulus evaluation and action monitoring in impulsivity (Oct. 2003). Southwest Cognition Conference, College Station, TX.

Neural systems of endogenous attention (Apr. 2002). Neuroscience Research Center, University of Texas at Houston Medical School.

Schizophrenia and the disconnected brain: Evidence from electrical fields. (Sept. 2000). Neuroscience Research Center, University of Texas at Houston Medical School.

Visual cortex mapping with transcranial magnetic stimulation (Feb. 2000). Houston Society for Biomedical Engineering, Houston

Research Imaging Center, University of Texas Health Sciences Center at San Antonio (Feb. 1999). Mapping the TMS visual suppression effect on the cortical surface..

An ERP index of a modality independent frontal system of selective attention and its disruption in schizophrenia (Feb. 1999). Research Imaging Center, University of Texas Health Sciences Center at San Antonio.

Localizing the central sulcus with high-density somatosensory event-related potentials and an inverse solution in an MRI derived finite-element volume conductivity head model (Feb. 1999). Houston Society for Biomedical Engineering, Houston

High density event-related potential studies of auditory and visual information processing in schizophrenia (May 1996). Society for Biological Psychiatry, New York.

#### Recent Conference Presentations

Soder, HE, Cavanah, JF, Potts, GF (Sept 2022). Time-frequency analysis reveals theta-related salience and delta-related valence effects to appetitive and aversive outcomes, Society for Psychophysiological Research, Vancouver BC.

Soder, HE\*\*, de Dios, C\*\*, Akula, VK\*, McDonald, RV\*, Potts, GF (Sept 2019). Feedback-Related Negativity Reflects Unexpected Presence or Absence of Emotional Images. Society for Psychophysiological Research, Washington DC.

Kiebel, E\*\*, O'Leary\*\*, C, Potts, G, Bosson, J (2019). Gender, Sexual Orientation, And Modern Prejudice Predict MFN And LPP Responses To Sexual Imagery. Society for Psychophysiological Research, Washington DC.

Yu, X\*\*, Donchin, E, Potts (Sept 2019). Trait Inattention Moderates The Effects Of A Brief Mindful Breathing Exercise On Attention. Society for Psychophysiological Research, Washington DC.

de Dios, C\*\*, Ford, S\*, Potts, GF (Sept 2019). Comparing Reward and Instruction in Target Detection. Society for Psychophysiological Research, Washington DC.

de Dios, C\*\*, Potts, GF (Oct. 2018). Learning To Associate Reward Values With Cues. Society for Psychophysiological Research, Quebec City, CA.

Kiebel, E\*\*, O'Leary, C\*\*, Potts, G, Bosson, J (2018). Gender And Sexual Prejudice As Predictors Of MFN Responses To Gay And Lesbian Sexual Imagery. Society for Psychophysiological Research, Quebec City, CA.

Yu, X\*\*, Donchin, E, Potts, GF (Oct. 2018). Effect Of Introceptive And Extroceptive Attention On The Dissociation Of The ERN And PE. Society for Psychophysiological Research, Quebec City, CA.

Vieira, A.B.\*, Soder, H.E.\*\*, & Potts, G.F. (Oct. 2017). Differentiating Neural Responses to Appetitive and Aversive Stimuli in Anxiety and Depression. Society for Psychophysiological Research, Vienna, Austria.

Soder, H.E.\*\* & Potts, G.F (Oct. 2017). Medial Frontal Cortex Response to Appetitive and Aversive Outcomes in a Gambling Task. Society for Psychophysiological Research, Vienna, Austria.

Webber, T.A.\*\*, Soder, H.E.\*\*, Potts, G.F., and Bornoalova, M.A. (Oct. 2017). Fetal Programming Effects on Neural Response to Motivational Stimuli and Drinking Behavior. Society for Psychophysiological Research, Vienna, Austria.

de Dios, C\*\*, Potts, GF (Oct. 2017). Reward's impact on attention: Cue-like or target-like? Society for Psychophysiological Research, Vienna, Austria.

Yu, X.\*\*, & Potts, G. (Oct. 2017) The impact of resource depletion and mindfulness on error monitoring. Society for Psychophysiological Research, Vienna, Austria.

Ceylan, AO\*\*\*, Yu, X\*\*, Burgess, J\*, Potts, GF (Mar. 2017). The role of reward and punishment motivation in attention: an ERP investigation. Cognitive Neuroscience Society, San Francisco, CA.

Soder, H\*\*, Potts, G (Mar. 2017). Differential neural outcome processing of monetary and non-monetary feedback: A comparison of college drinkers and non-drinkers. Cognitive Neuroscience Society, San Francisco, CA.

Rogers, M\*, Soder, H\*\*, Potts, G (Mar. 2017). Which factors of impulsivity predict neural reward sensitivity? Cognitive Neuroscience Society, San Francisco, CA.

O'Leary, C.\*\*, Kiebel, E\*\*, Acosta, A.\*, Beach, M.\*, Gorey, C\*\*, Potts, G. (Nov. 2016). Coloring Outside the Lines: Exploring a Continuous Model of Sexual Orientation and Reward Responses to Sexual Images. Society for Social Neuroscience, San Diego, CA.

Gorey, C.\*\*, O'Leary, C.\*\*, Bornoalova, M., Potts, G. (Nov. 2016). Creating the Hypersensitive Reward System: The Role of Age of Alcohol Initiation and First Social Alcohol Experiences. Society for Social Neuroscience, San Diego, CA.

Feinstein, A.\*, Abarno, C.\*, O'Leary, C.\*\*, Gorey, C\*\*, Bornoalova, M., Potts, G. (Nov. 2016). Social Anhedonia: Are There Domain-Specific Hedonic Deficits Across the Neural and Behavior Level? Society for Social Neuroscience, San Diego, CA.



- Soder, H.E.\*\* , Vieira, A.B.\* , & Potts, G.F (Sept. 2016). Unexpected Absence of Rewards or Punishments and the Feedback-Related Negativity. Society for Psychophysiological Research, Minneapolis, MN.
- de Dios, C.\* & Potts, G.F. (Sept. 2016). Does incentive salience direct early attention? An ERP investigation. Society for Psychophysiological Research, Minneapolis, MN.
- Bedwell, J.S., Potts, G.F., Gooding, D.C., Trachik, B.J., Chan, C.C., & Spencer, C.C. (2016, May). Transdiagnostic psychiatric symptoms and event-related potentials following rewarding and aversive outcomes. Biological Psychiatry, Atlanta, GA.
- de Dios, C.\*\* & Potts, G.F. (Apr. 2016). Incentive salience produces early attention allocation: An ERP investigation. Cognitive Neuroscience Society Meeting, New York.
- Nandur, V\*, Dubé, C, Potts, GF (Apr 2016). Oscillatory Correlates of Belief Bias in Deductive Reasoning. Cognitive Neuroscience Society, New York.
- Soder, HE\*\*, Haggerty, TK\*, Johnson, PL\*\*, Cimino, CR, Potts, GF (Apr 2016). Preliminary results for a dissociation between PTSD and mTBI using ERPs. Cognitive Neuroscience Society, New York.
- Beach, M\*, Oleary, CT\*\*, Yakub, K\*\*, Potts, GF (Oct. 2015). The MFN as a Neural Correlate of Homophobia. Society for Social Neuroscience, Chicago.
- Oleary, CT\*\*, Potts, GF (Oct. 2015). The Motivational Value of Primary vs. Secondary Reinforcers in Reward. Society for Psychophysiological Research, Seattle.
- Soder, HE\*\*, Webber, TA\*\*, Bornovalova, MA, Park, JY, Potts, GF (Oct. 2015). Dopamine Genetics, Neural Sensitivity to Negative Outcomes, and Drinking Behavior. Society for Psychophysiological Research, Seattle. (Student Poster Award Winner)
- Webber, T.A.\*\* , Soder, H.E.\*\* , Park, J., Potts, G.F., Bornovalova, M.A. (2015, October) Familial and molecular genetic moderation of peer-influenced risk-taking behavior: Phenotypic and endophenotypic evidence. Society for Research in Psychopathology, New Orleans, LA.
- Yu, X\*\*, Potts, GF, Donchin, E (Oct. 2015). The Effect of Ego Depletion on Error Monitoring. Society for Psychophysiological Research, Seattle.
- Eckrich, SJ, Trachik, BJ, Potts, GF, Gooding, DC, Chan, CC, & Bedwell, JS (March 2015). Anhedonia Severity, Cannabis Use History, And Evoked-Response Potentials During Reward Prediction In A Transdiagnostic Sample. International Congress on Schizophrenia Research, Colorado Springs.

Kellogg E\*\*, Johnson P\*\*, Cimino, C, Potts, GF (Feb 2015). Investigating the Relationship Between Emotional Dysregulation, Impulsivity, and Executive Functions In a Non-Clinical Sample. International Neuropsychological Society, Denver.

Johnson P\*\*, Kellogg E\*\*, Potts GF, Cimino C (Feb 2015). The Impact of Difficulties in Emotional Regulation on Emotional Memory and Emotional Processing of Pictures. International Neuropsychological Society, Denver.

Webber, TA\*\*, Soder, HE\*\*, Sibiga, A\*, Potts, GF, Borovalova, MA (Sept. 2014). Familial Effects of Peer Influenced Risk Taking Behavior: Behavioral and Physiological Evidence. Society for Psychophysiological Research. Atlanta.

Soder, H, Webber, T, Curham, K, Borovalova, M, Potts, GF (Sept. 2014). Impulsivity and Reward Sensitivity to Bad Outcomes: An Investigation of a Passive vs. Decision Making Task. Society for Psychophysiological Research. Atlanta.

de Dios, C, Potts, GF (Sept. 2014). The Effect of Motivational Error Monitoring Systems on Spatial Attention. Society for Psychophysiological Research. Atlanta.

Johnson, P, Potts, GF, Cimino, C. (Sept. 2014). The Influence of BIS and BAS on Emotional Processing and Emotional Memory. Society for Psychophysiological Research. Atlanta.