PEARL H. CHIU, PhD

2 Riverside Circle Roanoke VA 24016 chiup at vtc.vt.edu

EDUCATION AND EMPLOYMENT

Professor Virginia Tech Department of Psychology (with tenure), Blacksburg VA; Fralin

07/2023 - present Biomedical Research Institute at VT Carilion

Associate Professor Virginia Tech Department of Psychology (with tenure), Blacksburg VA; Fralin

07/2016 - 06/2023 Biomedical Research Institute at VT Carilion

Assistant Professor Virginia Tech Department of Psychology, Blacksburg VA; Virginia Tech Carilion

12/2010 - 06/2016 Research Institute & School of Medicine, Roanoke VA

Assistant Professor Virginia Tech Carilion School of Medicine, Department of Psychiatry and

12/2010 - present Behavioral Medicine, Roanoke VA

Research Scientist Salem Veterans Affairs Medical Center, Salem VA

2011 - present

Assistant Professor Baylor College of Medicine, Department of Neuroscience and Menninger

2007 - 2010 Department of Psychiatry and Behavioral Sciences (Adjunct 2011 - 2013); Michael E.

Debakey Veterans Affairs Medical Center (Research Scientist)

Post-doc Fellow Baylor College of Medicine, Department of Neuroscience

2006 - 2007 Human Neuroimaging Lab (PI: Read Montague, PhD)

PhD **Harvard University, Cambridge, MA**2006 Field: Psychology (Clinical Science)

Clinical Intern
2005 - 2006

Baylor College of Medicine, Menninger Department of Psychiatry & Behavioral
Sciences, Houston, TX (Adult Neuroscience Track; APA Accredited Internship)

AM Harvard University, Cambridge, MA

2004 <u>Field</u>: Psychology

Lab Coordinator Harvard University, Cambridge, MA

1998 - 2000 Interpersonal Perception and Communication Lab (PI: Nalini Ambady, PhD)

AB Harvard University, Cambridge, MA

1998 Field: Psychology and Biology, Track in Cognitive Neuroscience

AWARDS AND HONORS

2022	Virginia Tech Graduate School.	College of Science (Outstanding Mentor Award

2022 Virginia Tech Research and Innovation Excellence Recognition

National Public Radio, Source of the Week
 Virginia Tech Scholar of the Week, April 9

2010	Biobehavioral Research Award for Innovative New Scientists (BRAINS), National	
	Institute of Mental Health	
2006 - 2007	American Psychological Association Diversity in Neuroscience Postdoctoral Fellowship	
2004 - 2005	Dissertation Completion Merit Fellowship, Harvard University	
2003 - 2004	Harvard University Graduate Society Dissertation Merit Fellowship	
2001 - 2002	Fellowship in Psychobiology , Harvard University. Distinction for interdisciplinary research	
2001	Bok Certificate of Distinction in Teaching , Harvard University. 4.9/5.0 teaching rating	
2001	Vincent Prize, Harvard University. For Innovative Ideas for the Awareness & Treatment of Depression	
2000 - 2001	Stimson Prize for Research, Harvard University	
1998	John Harvard Certificate of Merit. University recognition of academic merit	
1998	Certificate in Mind, Brain, Behavior . University recognition of interdisciplinary research	

PEER-REVIEWED PAPERS

- * senior/co-senior or corresponding author; # trainee co-author
- Williams, W*, King-Casas, B*, <u>Chiu, PH*</u>, Sciarrino, N, Estey, M, Hunt, C, McCurry, K, Graham, D (2022) Do early responders and treatment non-responders offer guidance to make cognitive processing therapy (CPT) group a more effective treatment? *Journal of Clinical Psychology*, 78, 1376-1387. https://doi.org/10.1002/jclp.23307
- Brown VM*, Zhu L*, Solway A*, Wang, JM*, McCurry, KL*, King-Casas, B*, <u>Chiu, PH</u>* (2021) Reinforcement learning disruptions in individuals with depression and sensitivity to symptom change following cognitive behavioral therapy. *JAMA Psychiatry*, 78, 1113-1122. https://doi.org/10.1001/jamapsychiatry.2021.1844
- Chung, D*, Orloff, M*, Lauharatanahirun, N*, <u>Chiu, PH</u>*, King-Casas, B* (2020) Valuation of peers' safe choices is associated with substance-naïveté in adolescents. *Proceedings of the National Academy of Sciences*, USA, 117, 31729-31737. https://doi.org/10.1073/pnas.1919111117
- Williams, MW*, Graham, D, Sciarrino, NA, Estey, M, McCurry, K*, Chiu, PH*, King-Casas, B* (2020) Does validity measure response affect group cognitive processing therapy (CPT) outcomes in veterans with PTSD? *Military Medicine*, 185, e370-e376. https://doi.org/10.1093/milmed/usz385
- McCurry, KM*, Frueh, BC, <u>Chiu, PH</u>*, King-Casas, B* (2020) Opponent effects of hyperarousal and reexperiencing on affective habituation in posttraumatic stress disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5, 203-212. https://doi.org/10.1016/j.bpsc.2019.09.006
 - <u>Commentary</u> in: Averill CL, Averill LA, Fan S, Abdallah CG (2020) Of forests and trees: Bridging the gap between neurobiology and behavior in posttraumatic stress disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5, 135-137.
- Wang, JM*, Zhu, L*, Brown, VM*, De La Garza II, R, Newton, T, King-Casas, B, <u>Chiu, PH</u>* (2019) In cocaine dependence, neural prediction errors during loss avoidance are increased with cocaine deprivation and predict drug use. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 4, 291-299. https://doi.org/10.1016/j.bpsc.2018.07.009
 - <u>Commentary</u> in: Stewart, JL (2019). A computational modeling approach supports negative reinforcement theories of addiction. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 4, 218-219.
- Brown, V*, Zhu, L*, Wang, J*, Frueh, BC, King-Casas, B*, <u>Chiu, PH</u>* (2018). Associability-modulated loss learning is increased in posttraumatic stress disorder. *eLife*. eLife 2018;7:e30150. https://doi.org/10.7554/eLife.30150

- Commentary in: https://doi.org/10.7554/eLife.30150.002
- Kahn RE, <u>Chiu PH</u>, Deater-Deckard K, Hochgraf AK, King-Casas B*, Kim-Spoon J* (2018). The interaction between punishment sensitivity and effortful control for emerging adults' substance use behaviors. **Substance Use and Misuse**, 53, 1299-1310. https://doi.org/10.1080/10826084.2017.1407790
- Chung, D*, Kadlec, K*, Aimone, J, McCurry, K*, King-Casas, B, Chiu, PH* (2017). Valuation in major depression is intact and stable in a non-learning environment. *Scientific Reports*, 7, 44374. https://doi.org/10.1038/srep44374
- Kim-Spoon, J*, Kahn, RE, Lauharatanahirun, N, Deater-Deckard, K, Bickel, WK, <u>Chiu, PH</u>, King-Casas, B* (2017). Executive functioning and substance use in adolescence: Neurobiological and behavioral perspectives. *Neuropsychologia*, 100, 79-92. https://doi.org/10.1016/j.neuropsychologia.2017.04.020
- Kim-Spoon, J*, Deater-Deckard, K, Holmes, C, Lee, J, <u>Chiu, P</u>, King-Casas, B* (2016). Behavioral and neural inhibitory control moderates the effects of reward sensitivity on adolescent substance use. *Neuropsychologia*. 91, 318-326. https://doi.org/10.1016/j.neuropsychologia.2016.08.028
- Kim-Spoon, J*, Kahn, R*, Deater-Deckard, K, Chiu, PH, Steinberg, L, King-Casas, B* (2016). Risky decision making in a laboratory driving task is associated with health risk behaviors during late adolescence but not adulthood. *International Journal of Behavioral Development*. 40, 58 63. https://doi.org/10.1177/0165025415577825
- Chung, D#, Christopoulos, G#, King-Casas, B, Ball, S, <u>Chiu, PH</u>* (2015). Social signals of safety and risk confer utility and have asymmetric effects on observers' choices. *Nature Neuroscience*, 18, 912 916. https://doi.org/10.1038/nn.4022
 - <u>Commentary</u> in: Smith, DV & Delgado, MR (2015) Social nudges: utility conferred from others. *Nature Neuroscience*, 18, 791 792.
- Marsden, KE*, Ma, WJ, Deci, EL, Ryan, RM, Chiu, PH* (2015). Diminished neural responses predict enhanced intrinsic motivation and sensitivity to external incentive. *Cognitive*, *Affective*, & *Behavioral Neuroscience*, 15, 276 286. https://doi.org/10.3758/s13415-014-0324-5
- Williams, W*, Graham, D, McCurry, K*, Sanders, A, Eiseman, J, <u>Chiu, PH</u>*, King-Casas*, B (2014). Group psychotherapy's impact on trust in veterans with PTSD: A pilot study. *Bulletin of the Menninger Clinic*, 78, 335 348. https://doi.org/10.1521/bumc.2014.78.4.335
- Zhu, L[#], Jenkins, AC, Set, E, Scabini, D, Knight, RT, <u>Chiu, PH</u>*, King-Casas*, B, Hsu*, M (2014). Damage to dorsolateral prefrontal cortex affects tradeoffs between honesty and self-interest. *Nature Neuroscience*, 17, 1319 1321. https://doi.org/10.1038/nn.3798
- White, SW, Mazefsky, CA, Dichter, GS, <u>Chiu, PH</u>, Richey, JA, Ollendick, TH (2014). Social-cognitive, physiological, and neural mechanisms underlying emotion regulation impairments: Understanding anxiety in autism spectrum disorder. *International Journal of Developmental Neuroscience*, 39, 22 36. https://doi.org/10.1016/j.ijdevneu.2014.05.012
- King-Casas*, B & Chiu*, PH (2012). Understanding social function in psychiatric illness through multi-player economic games. *Biological Psychiatry*, 72, 119-125. https://doi.org/10.1016/j.biopsych.2012.03.033
- D'Andrea, W#, Chiu, PH, Casas, BR, & Deldin, P (2012). Linguistic predictors of post-traumatic stress disorder symptoms following 11 September 2001. *Applied Cognitive Psychology*, 26, 316-323. https://doi.org/10.1002/acp.1830
- Tso, IF*, Chiu, PH, King-Casas, BR, Deldin P (2011). Alterations in affective processing of attack images following September 11, 2001. *Journal of Traumatic Stress*, 24, 538-545. https://doi.org/10.1002/jts.20678

- Herman, S, Archambeau, OG*, Deliramich, AN*, Kim, BSK, <u>Chiu, PH</u>, Frueh, BC (2011). Depressive symptoms and mental health treatment in an ethnoracially diverse college student sample. *Journal of American College Health*, 59, 715-720. https://doi.org/10.1080/07448481.2010.529625
- Lindsey, L*, King-Casas, B, Brovko, J, Chiu, PH* (2009). Toward functional neurobehavioral assessment of mood and anxiety. *Conference Proceedings of the IEEE Engineering in Medicine and Biology Society*, 2009, 5393-5396 https://doi.org/10.1109/IEMBS.2009.5332809
- <u>Chiu, PH</u>*, Holmes, AJ, Pizzagalli, DA (2008). Dissociable recruitment of rostral anterior cingulate and inferior frontal cortex in emotional response inhibition. *NeuroImage*, 42, 988-997. https://doi.org/10.1016/j.neuroimage.2008.04.248
- <u>Chiu, PH</u>, Lohrenz, TM, Montague, PR (2008). Smokers' brains compute but ignore a fictive error signal in a sequential investment task. *Nature Neuroscience*, 11, 514-520. https://doi.org/10.1038/nn2067
- <u>Chiu, PH</u>, Kayali, MA, Kishida, KT, Tomlin, D, Klinger, LG, Klinger, MR, Montague, PR (2008). Self responses along cingulate cortex reveal quantitative neural phenotype for high functioning autism. *Neuron*, 57, 463-473. [cover article] https://doi.org/10.1016/j.neuron.2007.12.020
 - Commentary in: Frith, CD & Frith U (2008). The self and its reputation in autism. *Neuron*, 57, 331-332.
- Chiu*, PH & Deldin, P (2007). Neural evidence for enhanced error detection in major depressive disorder.
 American Journal of Psychiatry, 164, 608-616. https://doi.org/10.1176/ajp.2007.164.4.608
 Commentary in: Oquendo, MA & Parsey, RV (2007). What have we learned about the neurobiology of major depression? American Journal of Psychiatry, 164, 540-542.
- Deldin, P & Chiu, P (2005). Cognitive restructuring and EEG in major depression. *Biological Psychology*, 70, 141-151. https://doi.org/10.1016/j.biopsycho.2005.01.003
- <u>Chiu, P</u>, Ambady, N, & Deldin, P (2004). CNV to emotional in- and out-group stimuli differentiates high- and low- prejudiced individuals. *Journal of Cognitive Neuroscience*, 16, 1030-1039. https://doi.org/10.1162/0898929042947946

CHAPTERS, COMMENTARY, AND SCIENTIFIC OUTREACH PUBLICATIONS

- Li, F**, Chiu, PH*, King-Casas, B* (2021). Trust vs Reciprocity: The role of outcome-based and belief-based motivations. In Krueger, F (Ed.), *The Neurobiology of Trust* (pp. 236-268). Cambridge, UK: Cambridge University Press. https://doi.org/10.1017/9781108770880.014
- <u>Chiu, PH</u> & King-Casas, B (2021) Can peer pressure help teens make safer decisions? Science Journal for Kids. https://www.sciencejournalforkids.org/articles/can-peer-pressure-help-teens-make-safer-decisions/
- Montague, PR & Chiu, PH (2009). Brain reward and fMRI. In Charney, D. and Nestler, E. (Eds.), *Neurobiology of Mental Illness* (pp. 846-866). New York NY: Oxford University Press.
- Montague, PR & Chiu, PH (2007). For goodness' sake. [News and Views] *Nature Neuroscience*, 10, 137-138. https://doi.org/10.1038/nn0207-137
- Ambady, N, Chiao, J, <u>Chiu, P</u>, & Deldin, P (2005). Race and emotion: insights from a social neuroscience perspective. In JT Cacioppo, PS Visser, CL Pickett (Eds.), *Social Neuroscience: People Thinking About People*. (pp. 209-228). Cambridge MA: MIT Press.
- Deldin, P, Shestyuk, A, & Chiu, P (2003). ERP indices of memory biases in depression. In M. Lenzenweger and J. Hooley (Eds.), *Principles of Experimental Psychopathology* (pp. 195-210). Washington, D.C.: APA. https://doi.org/10.1037/10477-012

RESEARCH FUNDING

Current support

PI or MPI

R01MH122512 Chiu, Montague (MPIs) 07/2022 - 03/2027

NIH/NIMH Total Award: \$3,821,959

Title: Sub-second neurochemistry of error signals and affective processing in depression

Goal: Test dopamine and serotonin correlates of depression symptoms

R01AA029222 Chiu (PI) 09/2021 - 05/2026

NIH/NIAAA Total Award: \$3,144,300

Title: Making connections among social ties, neural sensitivity to social signals, and outcomes

Goal: Test whether sensitivity to social signals influences how social ties yield variability in alcohol use and mood/anxiety outcomes

R01MH127773 Chiu (PI) 07/2021 - 06/2026

NIH/NIMH Total Award: \$3,944,615

Title: Evaluating neurocomputational loss and reward elements of the RDoC matrix

Goal: Assess structural relationships and stability among valuation processes and psychopathology symptoms

R01DA051573 Chiu, Casas (MPIs) 04/2021 - 03/2026

NIH/NIDA Total Award: \$3,476,235

Title: Social influences on choices in adolescent substance use

Goal: Examine neurobehavioral substrates of how social peers impact choices in adolescents

Completed support

Merit D2354R King-Casas (PI) 07/2018 - 06/2023

VA/RR&D Total Award: \$1,099,656

Title: Efficacy and neural mediators of response to TMT for PTSD

Goal: Investigate neural mechanisms of treatment in PTSD using functional magnetic resonance imaging

Role: Co-I

R01MH115221 King-Casas (PI) 02/2018 - 12/2022

NIH/NIMH Total Award: \$3,191,845

Title: Neurobehavioral mechanisms of social dysfunction in Borderline Personality Disorder

Goal: Use computational models of social behavior and neuroimaging to evaluate interpersonal dysfunction in

borderline personality disorder

Role: Co-I

R21DA042274 Chiu, Chung (MPIs) 04/2017 - 03/2019

NIH/NIDA Total Costs: \$442,750

Title: Neural substrates of social influence on risky decision making in cocaine users

Goal: Examine how peers' choices about risky options affect decision-making in cocaine dependence

R01MH106756 Chiu (PI) 02/2016 - 12/2021

NIH/NIMH Total Award: \$3,724,351

Title: Neural substrates of reinforcement learning and its training in major depression

Goal: Test and modulate learning processes in depression

DP7OD018428 Friedlander and Van Wart (PIs) 10/2013 - 09/2018

NIH/OD

Title: Mentorship and development program for biomedical trainees

Goal: Expand the training experience of the nation's biomedical graduate students and postdoctoral fellows to

effectively prepare them for a diverse array of research-related roles

Role: Program Faculty

R01DA036017 Kim-Spoon and King-Casas (PIs) 07/2013 - 06/2018

NIH/NIDA

Title: Neurobehavioral determinants of adolescent substance use and HIV/STD behaviors

Goal: Characterize the development of neural substrates reward, risk sensitivity, cognitive control

Role: Co-I

B7760P Williams (PI) 4/2011 - 3/2013

VA/RR&D

Title: Neuroimaging the impact of treatment on trust in PTSD

Goal: Investigate neural mechanisms of change in interpersonal function following cognitive

behavioral therapy in PTSD

Role: Co-I

R01MH087692 Chiu (PI) 07/2010 - 01/2016

NIH/NIMH Total Award: \$1,634,314

Title: Neurobehavioral metrics for the assessment and treatment of depression

Goal: Identify quantitative neural predictors of domain-specific response to cognitive behavioral therapy in

depression

R01MH091872 Chiu (PI) 06/2010 - 01/2016

NIH/NIMH Total Award: \$1,826,252

Title: Neuroimaging major depression and nicotine dependence on axes of valuation

Goal: Use neuroimaging to map depression and substance dependence as disorders of motivation

D7030R King-Casas (PI) 10/2009 - 09/2013

VA/RR&D

Title: Neurobehavioral assessment of interpersonal functioning in PTSD Goal: Investigate neural correlates of interpersonal difficulties in veterans

Role: Co-I

R21/R33DA026086 Chiu, LaConte (MPIs) 09/2008 - 06/2014

NIH/NIDA Total Award: \$1,748,490

Title: Real-time fMRI approaches to facilitate self-control in substance abusers

Goal: Develop fMRI neurofeedback to improve self-control in smokers

T32-MH18882 Chiu (Postdoctoral Fellow) 06/2006 - 07/2007

NIH/NIMH American Psychological Association Diversity Program in Neuroscience Postdoctoral Fellowship

Program faculty

R25 NS105141 Fox (PI) 01/2018 - 12/2022

NIH/NINDS Total Award: \$420,809

Title: Virginia Tech Translational Neurobiology Summer Undergraduate Research Fellowship

Goal: Provide research experiences to undergraduate and high school students in translational neurobiology and

expose students to independent research early in their careers

Role: Program Faculty

R25 GM072767 Smith (PI) 01/2007 - 04/2023

NIH/NIGMS Total Award: \$2,352,565

Title: Virginia Tech – Initiative for Maximizing Student Development (VT-IMSD)

Goal: Develop and train underrepresented minorities in acquiring skills needed to succeed in Ph.D. programs

and biomedical and behavioral research. Role: Program Faculty

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08/2003 - 06/2023

NIH/NIGMS Total Award: \$2.047.685

Smith (PI)

Title: The Virginia Tech Postbaccalaureate Research and Education Program

Goal: Recruit and prepare postbaccalaureate scholars for admission into competitive and highly selective

biomedical and behavioral sciences doctoral programs at research-intensive universities.

Role: Program Faculty

SCIENTIFIC REVIEW AND SERVICE

National service

R25 GM066534

National Institutes of Health (NIH)

2022 - present Member, Neural Basis of Psychopathology, Addictions and Sleep Disorders Study Section,

NIH Center for Scientific Review

National Scientific Review Panels

- NIMH. ZMH1 ERB-S (07), review for applications to RFA-MH-21-116 and -117, Mood Disorders in People Living with HIV: Mechanisms and Pathways (R21 and R01)
- National Institute of General Medical Sciences (NIGMS), review for applications to PAR-19-313, Centers of Biomedical Research Excellence (COBRE) Phase 1 (P20)
- 2021 NIMH. ZMH1 ERB-Q (01), review for applications to PAR-20-093 (Silvio O. Conte Centers for Neuroscience and Translational Mental Health Research (P50)
- NIMH. ZMH1 ERB-Q (08), review for applications to PA-19-090 and PA-19-130, NIH Pathway to Independence Award (K99/R00)
- 2020 NIMH. ZMH1 ERB-Q (01), review for applications to RFA-MH-20-525, NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS R01)
- 2019 NIMH. ZMH1 ERB-D (04), review for applications to RFA-MH-18-704 Development of Psychosocial Therapeutic and Preventive Interventions for Mental Disorders (R61/R33)
- 2019 NIMH. <u>Chair</u>, ZMH1 ERB-S (04), review for applications to RFA-MH-19-240 Computationally-defined behaviors in psychiatry (R21)
- 2018 NIMH. ZMH1 ERB-M (04), review for applications to PA-18-398, NIH Pathway to Independence Award (Parent K99/R00)
- 2017 NIH Center for Scientific Review (CSR). November ZRG1 BDCN-J (02), Special Emphasis Panel. Member Conflict: Addictions, Depression, Bipolar Disorder, Schizophrenia
- 2017 NIH CSR. June ZRG1 BDCN-J (02), Special Emphasis Panel. Member Conflict: Addictions, Depression, Bipolar Disorder, Schizophrenia
- 2017 NIMH. ZMH1 ERB-L (02), review for applications to RFA-MH-16-600 NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS R01)
- 2017 Department of Veterans Affairs MHBB 1 Mental Health and Behavioral Science B Merit Review Panel.

- 2016 NIMH. ZMH1 ERB-M (05), review for applications to PA-16-077, NIH Pathway to Independence Award (K99/R00)
- 2016 NIMH. ZMH1 ERB-M (01), review for applications to PA-16-193, NIH Pathway to Independence Award (K99/R00)
- NIMH. ZMH1 ERB-S (01), review for applications to PA-15-083, NIH Pathway to Independence Award (K99/R00)
- 2015 NIMH. ZMH1 ERB-D (01), review for applications to RFA-MH-16-400, Exploratory Clinical Trials of Novel Interventions for Mental Disorders (R33)
- 2013 NIMH. ZMH1 ERB-S (02), review for applications to RFA-MH-14-030, Advancing Eating Disorders Research through Dimensional Studies of Biology and Behavior (R01)
- 2013 NIMH. ZMH1 ERB-L (04), review for applications to RFA-MH-13-110 Biobehavioral Research Awards for Innovative New Scientists (BRAINS R01)
- 2013 National Institute on Drug Abuse (NIDA). ZDA1 MXL-F (08), review for applications to RFA-NS-13-007 Exceptional Unconventional Research Enabling Knowledge Acceleration (EUREKA) for Neuroscience and Disorders of the Nervous System (R01)
- 2012 NIMH. ZMH1 ERB-S (04), review for applications to RFA-MH-12-100 Dimensional Approaches to Research Classification in Psychiatric Disorders (RDoC R01)
- 2011 NIMH. ZMH1 ERB (L04), review for applications to RFA-MH-11-050 Biobehavioral Research Awards for Innovative New Scientists (BRAINS R01)

International service

- 2020 Reviewer, Netherlands Organisation for Health Research and Development
- 2020 Reviewer, Health Research Council of New Zealand
- 2019 Reviewer, Wellcome Trust, UK
- 2014 Reviewer, Swiss National Science Foundation

Editorial service

Editorial Board Member, Scientific Reports (2018 - present)
Review Editor in Computational Psychiatry, Frontiers in Psychiatry (2018 - present)
Editorial Board Member, Computational Psychiatry, MIT Press (2015 - 2020)

Ad Hoc Reviewer

Archives of General Psychiatry; Autism Research; Biological Psychiatry; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Biological Psychology; Computational Psychiatry; Cognitive, Affective, and Behavioral Neuroscience; Emotion; Experimental Biology & Medicine; Health Psychology; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Psychiatric Research; Nature Neuroscience; Neural Computation; NeuroImage; Neuron; Neuropsychologia; Neuroscience; Psychiatry Research: Neuroimaging; PLOS Computational Biology; PNAS; Psychophysiology; Science; Scientific Reports; Conference Proceedings for Organization for Human Brain Mapping; Conference Proceedings for the Multi-disciplinary Conference on Reinforcement Learning and Decision Making.

University service

Virginia Tech

<u>University service</u>

Search Committee Member, Director of Human Research Protection Program (2018)

Adaptive Brain and Behavior Steering Committee (2016 - 2019)

Center for Autism Research Steering Committee Member (2012 - 2017)

College of Science service

Steering Committee, COS Faculty Association, Psychology Representative (2021 - present)

Promotion & Tenure Committee, elected COS member-at-large (2020 - 2022)

Adaptive Brain & Behavior Destination Area, Neuroscience Faculty Search Committee (2012 - 2013, 2015 - 2016)

Undergraduate Scholarship Reviewer (2015)

Department of Psychology service

Faculty Search Committee, Clinical Science area (2022; two positions)

Executive Committee (2021 - present)

Faculty Search Committee, Clinical Science area (2021; three positions)

Awards Committee, Clinical Science area (2021 - present)

Personnel (Promotion & Tenure) Committee (2019 - 2020)

Faculty Search Committee, Developmental Science area (2017 - 2018)

Diversity Committee (2016 - 2019)

Scholarly Productivity Committee, Clinical Science area (2012 - 2018; 2020 - 2021)

Member, Clinical Science graduate training area faculty (2011 - present)

Member, Biological Psychology graduate training area faculty (2011 - present)

Fralin Biomedical Research Institute at Virginia Tech Carilion service

International Precision Neuroscience Conference, Organizing Committee (2020 - 2022)

Postdoctoral Advancement Committee (2021 - present)

Computational Neuroscience Faculty Search Committee (2017, 2018, 2020, 2021)

Distinguished Visiting Scholar Seminar Series Committee (2011, 2012, 2017, 2018)

Health Behaviors Faculty Search Committee (2017 - 2018)

VTC School of Medicine, Neurology Department Chair Search Committee (2017)

Carilion Clinic Research Committee (2012 - 2013)

Cardio/Cerebrovascular Faculty Search Committee (2011)

Baylor College of Medicine

Member, Translational Biology & Molecular Medicine Graduate Program (2010)

Executive Committee, Neuroscience Graduate Program (2010)

Committee on Graduate Admissions (2009)

Seminar Series Committee (2008)

Group to define student competencies in quantitative skills (2007 - 2008)

Department of Neuroscience, Computational/Cognitive Faculty Search Committee (2006 - 2008)

TEACHING AND MENTORING

Postdoctoral trainees

- (1) Leonardo Barbosa, PhD (postdoc 2022 current; PhD, 2016, Paris Sciences et Lettres École Normale Supérieure)
- (2) Dong-Youl Kim, PhD (postdoc 2021 current; PhD, 2021, Korea University)

- (3) John Wang, PhD (postdoc 2020 current; PhD, 2020, Virginia Tech)
- (4) Flora Li, PhD (PhD, 2019, Virginia Tech); postdoc 2019 2021; now tenure track Assistant Professor at Nanjing Audit University, China.
- (5) Lusha Zhu, PhD (PhD, 2011, University of Illinois at Urbana-Champaign); postdoc 2012 2016; now tenure track Assistant Professor of Psychology and McGovern Institute, Peking University, China
- (6) Dongil Chung, PhD (PhD, 2011, Korea Advanced Institute for Science and Technology); postdoc and Research Scientist 2011 2016; now tenure track Assistant Professor, Ulsan National Institute of Science and Technology, South Korea
- (7) Cameron Craddock, PhD (PhD, 2009, Georgia Institute of Technology); post-doctoral mentor on NARSAD Young Investigator Award 2010 2013; co-founder The NeuroBureau; Director of the Computational Neuroimaging Lab, The University of Texas at Austin Dell Medical School
- (8) George Christopoulos, PhD (PhD, 2008, Cambridge University); postdoc 2008 2011; now Associate Professor with tenure at Nanyang Business School, Nanyang Technical University, Singapore
- (9) Dharol Tankersley, PhD (PhD, 2008, Duke University); postdoc 2009 2011; now Engineer at P2 Energy Solutions

Graduate student training

Doctoral students as primary or co-primary mentor, Virginia Tech

- (1) Shuhan Wang (current, Psychology; Biological Psychology Program, PhD expected 2027)
- (2) Kelsey Winkeler (current, Psychology; Clinical Science Program, PhD expected 2027)
- (3) Shivani Goyal (current, Psychology; Clinical Science Program, PhD expected 2027)
- (4) Vansh Bansal (current, Psychology; Clinical Science Program, PhD expected 2026)
- (5) Gates Palissery (current, Translational Biology, Medicine, and Health; PhD expected 2026)
- (6) Natalie Melville (current, Translational Biology, Medicine, and Health; PhD expected 2025)
- (7) Mark Orloff, PhD (2021, Translational Biology, Medicine, and Health); now postdoctoral fellow at UC Davis)
- (8) Zhuoya Cui, PhD (2021, Translational Biology, Medicine, and Health); now industry analyst, Shanghai, China
- (9) Shengchuang Feng, PhD (2020, Psychology; Biological Psychology program); now postdoctoral research fellow at Nanyang Technological University, Singapore)
- (10) Katie McCurry, PhD (2020, Psychology; Clinical Science Program); now T32 postdoctoral fellow at University of Michigan)
- (11) John Wang, PhD (2020, Psychology; Biological Psychology program); now research faculty at Virginia Tech)
- (12) Vanessa Brown, PhD (2018, Psychology; Clinical Science Program); now tenure track assistant professor at University of Pittsburgh
- (13) Nina Lauharatanahirun, PhD (2017, Psychology; Biological Psychology program); now tenure track assistant professor at Penn State

Medical students, primary research mentor. Virginia Tech Carilion School of Medicine

- (1) Mercedes Robinson, MD (2020; letter of distinction for research); now resident, UCSF Department of Neurology
- (2) Sohan Nagrani, MD (2015); now interventional pain physician

Membership on Masters'/Prelim/Doctoral Committees (not including primary mentees listed above)

<u>Baylor College of Medicine</u>, Dept of Neuroscience (2008 - 2010): (1) Erika Perez; (2) Danny Jenson; (3) Josepheen De Asis Cruz; (4) Alycia Yarnall; (5) Yong Cui. <u>Virginia Tech</u> (2011 - present), Dept of Psychology: (6) Merage Ghane; (7) Marika Coffman; (8) Andrew Valdespino; (9) Fang Wang; (10)

Benjamin DeVore; (11) Michael Lewis; (12) Marlene Strege; (13) Corinne Carlton; (14) Ligia Antezana; (15) Hayoung Ko; (16) Katelyn Garcia; (17) Megan Fok; (18) Brianna George; Translational Biology, Medicine, & Health: (19) Holly Toole; (20) Masha Tsyglakova; (21) Amber Kelly; (21) Jeremy Myslowski; (22) Caiti-Erin Talty; Computer Science: (23) Tanmoy Sarkar Pias; (24) Rachel Jones (Wake Forest University).

Undergraduate and postbaccalaureate training

Virginia Tech (2011 - present)

Post-baccalaureate research assistants

(1) Clare Hogan, 2022 - present; (2) Carey Caldwell, 2022 - present; (3) Grace Collins, 2021 - present; (4) Isaac Levy, 2021 - present; (5) Alex Pettus, 2021 - present; (6) Rebecca Faubion-Trejo, 2020 - present; (7) Katherine Senn, 2020 - 2022; (8) Julia Julien, 2019-2021; supported by NIH Postbaccalaureate Research Education Award #GM066435 & NIH Research Supplement to Promote Diversity in Health Related Research to R01MH115221; (9) Whitney Allen, 2018 - 2020; (10) Douglas Chan, 2017 - 2019; (11) Brennan Delattre, 2016 - 2018; received Fulbright Scholarship (12) Chris Anzalone, 2016 - 2018; (13) Lauren Reckling, 2015 - 2016; (14) Rachel Wallace, 2014 - 2015; (15) Jennifer Nguyen, 2014; (16) Riley Palmer, 2014 - 2016; (17) Allison McKinnon, 2013 - 2016; (18) Andre Plate, 2012 - 2014; (19) Cari Rosoff, 2012 - 2015; (20) Kathleen McLachlan, 2011 - 2013; (21) Brittany Hamilton, 2011 - 2013; (22) Jennifer Lent, 2011 - 2012; (23) Katie McCurry, 2010 - 2012

Undergraduate research assistants

(1) Kelly Kadlec, 2015 - 2019; (2) Jennifer Nguyen, 2013; (3) Lydia Nguyen, 2013; (4) Kathleen McLachlan, 2011; (5) Winston Kennedy, 2011, McNair Scholars Program, US Dept of Education TRIO program; (6) Diandra Gordon, 2011, McNair Scholars Program, US Dept of Education TRIO program; (7) Phillip Kotlaba, 2011.

Baylor College of Medicine (2007 - 2010)

Post-baccalaureate research assistants

(1) Katherine Gardner, 2010 - 2012; (2) Luz Martinez, 2010 - 2011, supported by NIH PREP (GM069234); (3) Cristina Tortarolo, Fall 2010; (4) Nina Lauharatanahirun, 2010 - 2011, supported by NIH Research Supplement to Promote Diversity in Health Related Research to R01MH091872; (5) Alex Acevedo-Rodriguez, 2009 - 2010, secondary mentor, (PREP); (6) Jessica Eiseman, 2009 - 2011; (7) James Sharp, 2009 - 2010; (8) April Sanders, 2008 - 2009; (9) Julie Brovko, 2007 - 2009; (10) LaRaun Lindsey, 2007 - 2013, supported by NIH Postbaccalaureate Research Education Program (PREP) GM069234;

Undergraduate research assistants

(11) Grace Chang, Summer 2010, Rice University; (12) Stephanie Regan, Summer 2010, Harvard University; (13) Spencer Boucher, Fall 2009 - 2011, Rice University; (14) Jamie Sammis, 2009 - 2010, Rice University; (15) Chanel Matney, Summer 2009, UT Dallas, Summer Medical and Research Training (SMART) Program; (16) Allen Liao, Summer 2009, Rice University; (17) Karen Marsden, Spring 2009 - present; (18) Noemie Levy, Spring 2009, Rice University; (19) Betsy Ohrn, Spring 2009, Rice University; (20) Andrew Thompson, 2008 - 2009, Rice University; (21) Christina Brovko, Summer 2008, UC Riverside; (22) Sam Soundar, 2008 - 2010, Rice University; (23) Magdalena Wistuba, 2007 - 2010, Rice University.

2000 - 2005	Senior Common Room Member (non-resident advisor), Cabot House, Harvard University.
2000 - 2005	Academic Advisor, Department of Psychology, Harvard University.
2000 - 2003	Research Supervisor , Department of Psychology, Harvard University. Supervised undergraduate research assistants and students conducting honors thesis research.
<u>Courses</u>	
2020	Block Director , Brain and Cognitive Science; Translational Biology, Medicine, and Health Gateway Course (TBMH 5004), Virginia Tech. Mean teaching rating: 4.38/5
2018, 2020	Course Director , Fundamentals in Brain and Cognitive Science (TBMH 5074), Virginia Tech. Mean teaching rating: 5.6/6
2015, 2016, 2017	Section Instructor , Fundamentals of Neuroscience (TBMH 5014), Virginia Tech. Mean teaching rating: 4.6/5.0
2013	Course Director , Advanced Topics in Decision Neuroscience (PSYC 6954), Virginia Tech. Overall rating: 5.2/6.0
2003 - 2004	Co-Head Teaching Fellow , Abnormal Psychology (Psy 18), Harvard University. Overall rating: 4.3/5.0
2001	Teaching Fellow , Laboratory in Psychophysiology (Psy 1856r), Harvard University. Overall rating: 4.9/5.0
Guest Lectures	
2022	Carilion Clinic Department of Psychiatry Journal Club. "Peer information in risky decision-making"
2022	Virginia Tech. Topic: Circuits of Human Cognition: Social Behavior and Reward. (Course number TBMH 5014, "Fundamentals of Molecular Neuroscience"; Course
2020	Director Anthony LaMantia). Virginia Tech Carilion School of Medicine. Lecture "Introduction to Psychiatry" (Course: Block IV Medical Neuroscience; Director: Kristofer Rau).
2019	Virginia Tech. Guest Lecture "The social, emotional brain" (Course number HFNE 2774, "Meraki LLC"; Course Director Matt Hulver).
2018	Virginia Tech. "Computational psychiatry (parts 1 & 2)." (Course number TBMH 5074, "Fundamentals of Cognitive Brain Science"; Course Director Brooks King-Casas).
2017	Virginia Tech. Career discussion panelist (Course number PSYC 5374, "Health Psychology"; Course Director Richard Winett).
2017	Virginia Tech. "Computational approaches to psychiatric illness (parts 1 & 2)." (Course number TBMH 5014, "Fundamentals of Neuroscience"; Course Directors Michael Fox and Brooks King-Casas).
2016	Virginia Tech. "Cognitive neuroscience of healthy and debilitating emotion (parts 1 & 2)." (Course number TBMH 5014, "Fundamentals of Neuroscience"; Course Directors Michael Fox and Brooks King-Casas).
2015	Virginia Tech. Career discussion panelist (Course number PSYC 5374, "Health Psychology"; Course Director Richard Winett).
2015	Virginia Tech. "Neurobehavioral substrates of decision-making in depression." (Course number TBMH 5014, "Fundamentals of Neuroscience"; Course Directors Michael Fox and Brooks King-Casas).

2014	Virginia Tech. "Depression: An introductory overview." (Course number TBMH 5004, "Translational Biology, Medicine and Health: Gateway Course"; Course Director Michael Friedlander)
2014	Michael Friedlander). Virginia Tech. "Neural substrates of reinforcement learning: Toward understanding & treating substance dependence." (Course number NEUR 4984, "Neuroeconomics";
2013	Course Director Sheryl Ball). Virginia Tech. "Translational neuroimaging: Perspectives from a clinical scientist." (Course number PSYC 4364, "Introduction to Clinical Psychology"; Course Director Lee Cooper).
2010	Baylor College of Medicine. "Neuroimaging endophenotypes for major depressive disorder." (Course number 350-422, "Neurobiology of Disease"; Course Coordinator Michael Friedlander).
2010	Baylor College of Medicine. "Neurobehavioral metrics for assessing individual differences and understanding the influence of others." (Course number 350-434, "Higher Brain Function"; Course Coordinator Mariella De Biasi).
2009	Baylor College of Medicine. "Neuroimaging healthy and debilitating emotion." (Course number 350-444, "Brain Imaging from Cell to System"; Course Coordinator Peter Saggau).
2009	Baylor College of Medicine. "Neuroimaging endophenotypes for major depressive disorder." (Course number 350-422, "Neurobiology of Disease"; Course Coordinator Michael Friedlander).
2008	University of Texas Graduate School of Biomedical Sciences. "Neural signals of decision-making in economic games: Applications to autism and addiction." (Course number GS02 0043, "Introduction to fMRI"; Course Coordinator Michael Beauchamp).
INVITED TALKS	
INVITED TALKS 2021	Virginia Tech, Computational Tissue Engineering training group. "Computational psychiatry: A possible way forward for depression."
	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via
2021	psychiatry: A possible way forward for depression."
2021 2020	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic
2021 2020 2018	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression
2021202020182017	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression and its neuroscience." Society of Biological Psychiatry, Atlanta, GA. "Reinforcement learning parameters
2021 2020 2018 2017 2016	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression and its neuroscience." Society of Biological Psychiatry, Atlanta, GA. "Reinforcement learning parameters of behavioral treatment response in depression." Society for Research in Psychopathology, New Orleans, LA. "Understanding social
2021 2020 2018 2017 2016 2016	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression and its neuroscience." Society of Biological Psychiatry, Atlanta, GA. "Reinforcement learning parameters of behavioral treatment response in depression." Society for Research in Psychopathology, New Orleans, LA. "Understanding social functioning across psychopathologies through valuation and decision-making." Brain School, Brain Awareness Week, Virginia Tech Carilion Research Institute.
2021 2020 2018 2017 2016 2016 2015	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression and its neuroscience." Society of Biological Psychiatry, Atlanta, GA. "Reinforcement learning parameters of behavioral treatment response in depression." Society for Research in Psychopathology, New Orleans, LA. "Understanding social functioning across psychopathologies through valuation and decision-making." Brain School, Brain Awareness Week, Virginia Tech Carilion Research Institute. "Building blocks of the social brain" National Advisory Mental Health Council, National Institute of Mental Health. "Toward a computational psychiatry," Invited panel member, Biobehavioral Research
2021 2020 2018 2017 2016 2016 2015 2015	psychiatry: A possible way forward for depression." University of Hawaii at Hilo. "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19) Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA. "Computational psychiatry of depression and anxiety: a didactic introduction." Computational Psychiatry 2017. "Computational Psychiatry of depression and PTSD." Women's Health Virginia, Annual Conference on Women's Health. "Depression and its neuroscience." Society of Biological Psychiatry, Atlanta, GA. "Reinforcement learning parameters of behavioral treatment response in depression." Society for Research in Psychopathology, New Orleans, LA. "Understanding social functioning across psychopathologies through valuation and decision-making." Brain School, Brain Awareness Week, Virginia Tech Carilion Research Institute. "Building blocks of the social brain" National Advisory Mental Health Council, National Institute of Mental Health.

Tech. Panel discussion: Harnessing Brain Power.

2014	International Conference on Neuroeconomics and Neuromanagement, Hangzhou, China. Keynote address: "Neural substrates of decision-making and its change: Examples from psychiatric illness."
2013	Brain School, Brain Awareness Week, Virginia Tech Carilion Research Institute.
2013	"When brains do (or feel!) things we'd rather they didn't"
2013	Virginia Conversations, Virginia Public Radio (WVTF)
2013	Virginia Tech Carilion Research Institute European-U.S. Workshop on the
	Neuroscience of Cognition, Computation, and Decisions, Lugano, Switzerland.
	"Neural markers of decision-making in psychiatric illness"
2013	Computational Psychiatry 2013, Miami FL. "Neurobehavioral metrics of decision-
	making under risk in health and substance dependence."
2012	University of Pennsylvania, Center for Cognitive Science Colloquium. "Decision
	neuroscience from scan to practice: preliminary data from substance dependence"
2012	University of Hawaii at Hilo. "Translational decision neuroscience from function to
	practice: A brief overview"
2012	Virginia Tech Center for Autism Research Conference. "Toward neurobehavioral
	metrics of social function: Examples from autism"
2012	Virginia Tech, Dept of Psychology, Clinical Research Forum. "Translational
	neuroimaging: preliminary data & perspectives"
2012	Blue Ridge Association of Clinical Psychologists. "Neurobehavioral metrics for the
2011	assessment & treatment of depression"
2011	Virginia Tech Research Center-Arlington "Meet the Scientists"
2011	Salem VA Medical Center
2011	Nanyang Technological University, Culture Science Institute, Singapore
2010	University of Southern California, Psychology Colloquium.
2010	Annual meeting of the Association for Behavioral & Cognitive Therapies,
	Symposium, Neuroeconomics and Psychopathology: Implications for treatment.
2009	"Measuring and modulating control signals in smokers" Baylor College of Medicine , Imaging in Psychiatry, Residents' Seminar Series.
2009	Rush and Helen Record Forum. "Translational fMRI: Applications for depression
2009	and addiction"
2009	31st Annual International IEEE Engineering in Medicine and Biology Society
2007	Conference. "Toward functional neurobehavioral assessment of mood and anxiety"
2008	Baylor College of Medicine, Imaging in Psychiatry, Residents' Seminar Series.
2008	Rice University, Cognitive Research Seminar.
2008	US Department of Defense and Humana Military Healthcare Services.
	Washington, DC.
2008	US Department of Defense and TriCare South Sub-Regional Meeting. Nashville,
	TN.
2007	Baylor College of Medicine, Department of Neuroscience, invited colloquium.
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CLINICAL TRAINING

07/2005 - 07/2006 Clinical Psychology Internship (APA Accredited) Baylor College of Medicine, Menninger Department of Psychiatry, Human Neuroimaging Laboratory, Houston, TX. Adult Clinical Neuroscience Track. Acquired training in fMRI study design, data analysis, and interpretation. Provided individual therapy and specialized cognitive, diagnostic, and personality assessment (including SCID-I; SCID-II; Diagnostic Interview for Personality Disorders-IV;

Kauffman Brief Intelligence Test-II; battery of self-report cognitive, personality, symptom measures) to individuals participating in research or seeking treatment at the

BCM Psychiatry Clinic and Student Counseling Center.

Supervisors: Read Montague, PhD; Lois Friedman, PhD; Laura Lomax, PhD

09/2004 - 06/2005 Practicum

Behavioral Health Partial Program, McLean Hospital, Belmont, MA.

Provided individual short-term therapy, group therapy, and specialized assessment to individuals with a range of severe psychiatric disorders transitioning from in-patient to out-patient facilities. Led and co-led a variety of treatment groups including: Self-Assessment, Medication Education, Depression & Anxiety Management, and Cognitive-Behavioral Therapy for Bipolar Disorder.

Supervisors: Edmund Neuhaus, PhD; Mary Ellen Crowley, PhD; Nora Ilniczky, PhD

10/2003 - 08/2004 Practicum

Obsessive Compulsive Disorder Institute, McLean Hospital, Belmont, MA.

Provided one-on-one exposure and response prevention coaching to individuals with treatment-resistant obsessive-compulsive disorder. Co-led Contract Setting treatment groups, Cognitive-Behavioral Therapy, Body Dysmorphic Disorder groups. Supervisor: Deborah Osgood-Hynes, PsyD

09/2003 - 02/2004 Practicum

Psychological Assessment, Harvard University, Cambridge, MA. Acquired skills in administering, interpreting, and report-writing of standardized tests in the areas of intellectual and personality assessment (e.g., Wechsler Adult Intelligence Scale, Wechsler Memory Scale, Minnesota Multiphasic Personality Inventory). Supervisor: Ellsworth Fersch, PhD

11/2001 - 05/2002 Practicum **The Cambridge Hospital, Cambridge, MA.** Co-led out-patient anxiety reduction and psychopharmacology education groups. Participated in treatment formulation. Supervisors: Kate Dare-Winters, LicSW; Simon LeJeune, MD

09/2000 - 06/2005

Diagnostic Assessment, Department of Psychology, Harvard University,

Cambridge, MA. 350+ hours conducting evidence-based assessment of individuals with and without psychopathology for eligibility for participation in research (e.g., Structured Clinical Interview for DSM-IV; Positive and Negative Syndrome Scale; McArthur Maudsley Delusion Assessment Scale; Calgary Depression Scale for Schizophrenia; battery of self-report measures). <u>Supervisor</u>: Patricia Deldin, PhD

MEMBERSHIPS

Association for Behavioral and Cognitive Therapies (2018 - present)

Society for Research in Psychopathology (2017 - present; Chair, Membership

Committee, 2017 - present)

Society of Biological Psychiatry (2015 - present)

Human Brain Mapping (2007 - present) Society for Neuroscience (2006 - present) Society for Neuroeconomics (2006 - 2009)

Association for Psychological Science (2005 - present)

Cognitive Neuroscience Society (2002 - present)

Society for Psychophysiological Research (2001 - 2008)

SYMPOSIA AND POSTER PRESENTATIONS

Goyal, S, Wang, JM, Brown, VM, Lee, J, Casas, B, Chiu, PH (2023). Modifying reinforcement learning-based behavior in depression. Poster presented at the annual meeting of the Society for Biological Psychiatry, San Diego, CA.

Kim, D-Y, Orloff, MA, Soldate, J, Lisinski, J, LaConte, SL, King-Casas, B, Chiu, PH (2022). Can a pre-trained model classify brain regions associated with risky decision-making for real-time fMRI neurofeedback? Poster presented at the biennial Real-time Functional Imaging and Neurofeedback meeting, New Haven, CT.

- Cui, Z, Zhu, L, Vilares, I, Wang, JM, Bansal, V, Chiu, PH, King-Casas, B (2022). Behavioral and neural alterations in cooperative behavior in depression. Poster presented at the annual meeting of the Society for Neuroeconomics, Arlington, VA.
- Melville N, Li F, Ball S, Kim-Spoon J, Chiu P, King-Casas B (2022). Known probability information influences how adolescents respond to ambiguity. Poster presented at the annual meeting of the Society for Neuroeconomics, Arlington, VA.
- Wang, JM, Cui, Z, Brown VM, Solway, A, Zhu, L, Kim-Spoon, J, Chiu, PH, King-Casas, B (2022). Diminished development of risk learning in adolescence is associated with increased real-world risk-taking behavior. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Glasgow, Scotland.
- Melville, N, Lohrenz, T, White, J, Barbosa, L, Twomey, T Batten, S, Lee, J, Ball, S, Witcher, M, Montague, PR, Chiu, PH, King-Casas, B. (2022) Dopamine and norepinephrine opponency during reward anticipation. Poster presented at the annual meeting of the Society for Biological Psychiatry, New Orleans, LA, USA.
- Bansal, V, McCurry, Wang, JM, Brown, VM Kim, D-Y, Lisinski, J, LaConte, S, King-Casas, B, Chiu, PH (2022). Neural substrates of reinforcement learning predict depression remission. Poster presented at the annual meeting of the Society for Biological Psychiatry, New Orleans, LA, USA.
- Goyal, S, Wang, JM, Brown, VM, Lee, J, King-Casas, B, Chiu, PH (2022). Developing a multi-session behavioral paradigm targeting reward learning-related neuromechanistic dysfunction in major depressive disorder. Poster presented at the biennial meeting of the International Precision Neuroscience Conference, Roanoke, VA, USA.
- Winkeler, K, Wang, JM Sankarasubramanian, N, Cunningham, K, Marston, E, Hurd, L, Usala, J, Jameson, M, Frueh, BC, Chiu, PH, King-Casas, B. (2022). Treatment-Related Change in Trust in Post-Traumatic Stress Disorder (PTSD). Poster presented at the biennial meeting of the International Precision Neuroscience Conference, Roanoke, VA, USA.
- King-Casas, B, Orloff, MA, Chung, D, Chiu PH (2021; online due to COVID). Increasing the value of peer information in risky decision-making. In M. Kraatz & V. Pariyadath (Chairs), Novel approaches to studying social cognition in addiction. Symposium presentation conducted at 2021 NIDA/NIAAA Mini-Convention: Frontiers in Addiction Research.
- Chiu, PH, Chung, D, Christopoulos, G, De La Garza, R, Newton, T, King-Casas, B (2021; online due to COVID). Social influences on risky choices in cocaine use disorder. Talk presented at the annual meeting of the Society for Biological Psychiatry.
- Feng S, Christopoulos G, Julien J, Chiu P, King-Casas B (2021; online due to COVID) Self and other-regarding reinforcement learning in post-traumatic stress disorder. Annual meeting of the Organization for Human Brain Mapping.
- Cui Z, Zhu L, Chiu PH, King-Casas B (2020, poster accepted; conference canceled due to COVID) Alterations of social interaction in combat-related Posttraumatic Stress Disorder. Abstract accepted for poster presentation at the Social & Affective Neuroscience Society, May 2020; Santa Barbara, USA.
- Orloff MA, Soldate J, Lisinski J, LaConte S, King-Casas B, and Chiu PH (2020; online due to COVID). Online decoding for rtfMRI neurofeedback via group classification models of a decision-making task. Annual meeting of the Organization for Human Brain Mapping, Montreal, Québec, Canada.
- Cui Z, Zhu L, Vilares I, Chiu PH, King-Casas B (2019). Behavioral and neural alterations in competitive behavior in major depressive disorder. Poster, International Convention of Psychological Science, Association for Psychological Science, Paris, France. With talk presented at Institut des Sciences Cognitives Marc Jeannerod, Lyon, France.
- Orloff MA, Chung D, Delattre B, Lee J, King-Casas B, Chiu PH (2019) Having agency in acquiring social information increases social influence. Poster, International Convention of Psychological Science, Association for Psychological Science, Paris, France.
- Orloff MA, Soldate J, Lisinski J, LaConte S, King-Casas B, Chiu PH (2019) Toward group classification models for rtfMRI neurofeedback using data from a decision-making task. Poster and talk, Organization for Human Brain Mapping, Rome, Italy.

- Feng S, Christopoulos G, Chiu P, King-Casas B (2019) The effect of oxytocin on reinforcement learning for self and other. Poster, International Convention of Psychological Science, Association for Psychological Science, Paris, France. With talk presented at Institut des Sciences Cognitives Marc Jeannerod, Lyon, France.
- Orloff MA, Chung D, Gu X, Gao Z, Song G, Tatineni C, Wang X, Xu S, King-Casas B, & Chiu PH (2018) Insula, but not dACC, is necessary for risky decision-making under social influence. Poster, Virginia-Nordic Precision Neuroscience Conference II, Oslo, Norway.
- Cui Z, Zhu L, Vilares I, Chiu PH & King-Casas B (2018) Behavioral and neural alterations in competitive behavior in major depressive disorder. Poster presented at the Society of Biological Psychiatry 73rd Annual Meeting, New York, NY, USA.
- Wang, JM, Cui, Z, Brown, V, Solway, A, Zhu, L, Kim-Spoon, J, Chiu, P, King-Casas, B (2018). Risk learning in adolescents. Poster, Organization for Human Brain Mapping, Singapore.
- Brown, VM, Zhu, L, Solway, A, Wang, JM, King-Casas, B, Chiu, P (2017) Reinforcement learning uncovers symptom-specific learning disruptions and effects of CBT. In P. Hitchcock (chair) Introducing computational clinical science: New techniques to improve methods, theory, diagnosis, and prediction. Symposium presented at Association for Behavioral and Cognitive Therapy, November 2017.
- Brown, VM, Lee, J, King-Casas, B, Chiu, P (2017). Training reinforcement learning. Poster presented at Reinforcement Learning & Decision Making, Ann Arbor, MI.
- McCurry, K, Brown, VM, King-Casas, B, Chiu, P (2017) Neuroimaging biomarkers of treatment response in major depressive disorder: An Activation Likelihood Estimation (ALE) meta-analysis. Poster, Society of Biological Psychiatry, San Diego, CA.
- Brown, VM, Lee, JI, King-Casas, B, Chiu, P (2017) Towards targeted training of reinforcement learning alterations in depression. Poster, Society of Biological Psychiatry, San Diego, CA.
- Chiu, P, Lisinski, J, McKinnon, A, Brown, V, McCurry, K, Eltahir, A, King-Casas, B, LaConte, S (2017). Poster, Real-time fMRI modulation of DMN is enhanced with cognitive behavioral therapy in depression. Organization for Human Brain Mapping, Vancouver, Canada.
- Feng, S, Brown, V, Wang, J, Cui, Z, King-Casas, Chiu, P (2017). Association between reward sensitivity and smoking status in individuals with and without major depressive disorder. Poster, Organization for Human Brain Mapping, Vancouver, Canada.
- Lauharatanahirun, N Maciejewski, D Kim-Spoon, J, Chiu, P, King-Casas, B (2017). Effects of home environment on neural correlates of risk processing in adolescents. Poster, Organization for Human Brain Mapping, Vancouver, Canada.
- Orloff, MA, Chung, D, Gu, X, Gao, Z, Song, G, Tatineni, C Wang, X, Xu, S, King-Casas, B, Chiu, PH (2017) Individuals with disrupted access to internal preferences blindly follow social others during risky decision-making. Poster, Organization for Human Brain Mapping, Vancouver, Canada.
- Brown, VM, Zhu, L, Wang, JM, Frueh, BC, King-Casas, B, Chiu, PH (2016). Heightened neurobehavioral substrates of associability-based learning in posttraumatic stress disorder. Poster, Society of Biological Psychiatry, Atlanta, GA.
- Brown, VM, Zhu, L, Wang, JM, Solway, A, King-Casas, B, Chiu, P (2016). Neurobehavioral effects of cognitive-behavioral therapy on depression-related disruptions in reinforcement learning. Talk presented at FENS Brain Conference on New Insights into Psychiatric Disorders through Computational, Biological and Developmental Approaches, Copenhagen, Denmark.
- McCurry, K, Frueh, BC, Chiu, P, King-Casas, B (2016). Opponent effects of hyperarousal and re-experiencing on habituation to emotional information in PTSD. Poster, Association for Behavioral and Cognitive Therapies, New York, NY.
- McCurry, K, Lisinski, J, LaConte, S, Chiu, P, King-Casas, B (2016). Development of a neural model of affective states for use in real-time neurofeedback. Poster, Neurocognitive Therapies/Translational Research Special Interest Group at the annual meeting of the Association for Behavioral and Cognitive Therapies, New York, NY.
- Brown, VM, Wang, JM, Zhu, L, King-Casas, B, Chiu, P (2016). Clinical, behavioral, and neural correlates of reinforcement learning in depression. Poster, Association for Behavioral and Cognitive Therapies, New York, NY.

- Brown, VM, King-Casas, B, Chiu, P (2016). From reinforcement learning to behavioral treatment of depression. Symposium talk presented at Society of Biological Psychiatry, Atlanta, GA.
- Lauharatanahirun, N, Ball, S, Aimone, J, Chiu, P, Kim-Spoon, J, King-Casas, B (2015) Neuroeconomic predictors of health risk behaviors in adolescents. Poster, Organization for Human Brain Mapping, Honolulu, HI.
- Chung, D, De La Garza, R, Newton, T, McCurry, K, King-Casas, B, Chiu, P (2015) Neurobehavioral evidence for cognitive enhancement in cocaine dependent individuals. Poster, Organization for Human Brain Mapping, Honolulu, HI.
- Kim-Spoon, J, Chiu, P, Deater-Deckard, K, Farley, J, Lauharatanahirun, N, Bickel, W, King-Casas, B (2015) A neurobehavioral study of the interaction between risk sensitivity and cognitive control predicting adolescent risk taking. Poster, Society for Research on Child Development, Philadelphia, PA.
- Kim-Spoon, J, Kahn, R, Faris, K, Deater-Deckard, K, Chiu, P, King-Casas, B (2015). The association between laboratory risky decision-making and real-life health risk behaviors among adolescents and adults. Poster, Society for Research on Child Development, Philadelphia, PA.
- Kahn, R, Kim-Spoon, J, Deater-Deckard, K, Chiu, P, King-Casas, B (2015). An examination of the interaction between risk sensitivity and inhibitory control related to young adults' substance use. Poster, Society for Research on Child Development, Philadelphia, PA.
- Zhu, L, Chiu, P, King-Casas, B (2015). Neural computations underlying actions in social hierarchy. Talk, 5th Annual Interdisciplinary Symposium on Decision Neuroscience, Cambridge, MA.
- Zhu, L, Wang, J, Ball, S, Hsu, M, Chiu, P, King-Casas, B (2015). The value of honesty: Neural evidence for lie-averse preferences. Poster, 5th Annual Interdisciplinary Symposium on Decision Neuroscience, Cambridge, MA.
- Chung, D, Christopoulos, G, King-Casas, B, Ball, S, Chiu, P (2015). Others' choices increase subjective value and explain asymmetric alignment with safety and risk. Poster, 5th Annual Interdisciplinary Symposium on Decision Neuroscience, Cambridge, MA.
- Feng, S, Brown, VM, Wang, JM, King-Casas, B, & Chiu, P (2015). Disrupted reinforcement learning in smoking and depression. Poster presented at the annual Virginia Tech Carilion Research Institute Retreat, Roanoke, VA.
- Brown, V, Wang, J, Zhu, L, King-Casas, B, Chiu, P (2014) Disrupted reinforcement learning in posttraumatic stress disorder. Poster, Organization for Human Brain Mapping, Hamburg, Germany.
- Chung, D, Aimone, J, Nguyen, L, McKinnon, A, Plate, A, King-Casas, B, Chiu, P (2014) Neural substrates of trust and diminishing motivations of generosity. Poster, Organization for Human Brain Mapping, Hamburg, Germany.
- Lauharatanahirun, N, Kim-Spoon, J, Chiu, P, King-Casas, B (2014). Neural correlates of risk processing and expectation of uncertainty in adolescents. Poster, Organization for Human Brain Mapping, Hamburg, Germany.
- McCurry, K, Lisinski, J, LaConte, S, Chiu, P, King-Casas, B (2014) Development of a group affective brain model for use in real-time fMRI. Poster, Organization for Human Brain Mapping, Hamburg, Germany.
- Wang, J, Zhu, L, De La Garza, R, Newton, T, McCurry, K, King-Casas, B, Chiu, P (2014) Cocaine use modulates neural substrates of loss aversion in a probabilistic learning task. Poster, Organization for Human Brain Mapping, Hamburg, Germany.
- Brown, V, Wang, J, Zhu, L, Rosoff, C, King-Casas, B, Chiu, P (2014) Reinforcement learning predictors of response to CBT in depression. Poster, Association for Behavioral and Cognitive Therapies, Philadelphia, PA.
- Nagrani, S, Chung, D, Chiu, P (2014) A study of risky decision-making in major depressive disorder. Poster, Society for Judgment and Decision Making, Long Beach, CA.
- Brown, V, Wang, J, Zhu, L, McNamara, R, Rosoff, C, McCurry, K, King-Casas, B, Chiu, P (2013) The neural substrates of reward and punishment learning in major depression. Poster, Organization for Human Brain Mapping, Seattle, WA.
- Chiu, P, Lisinski, J, Plate, A, King-Casas, B, Eagleman, D, Cinciripini, P, LaConte, S (2013) Modulating 'crave' and 'don't crave' brain states using real-time fMRI neurofeedback. Poster, Organization for Human Brain Mapping, Seattle, WA.

- Chung, D, Xu S, Gu, X, Gao, Z, Wang, X, Chiu, P (2013) Causal roles of dorsal anterior cingulate and insula on peer-influenced decision making under risk. Poster, Organization for Human Brain Mapping, Seattle, WA.
- Zhu, L, Rosoff, C, McNamara, R, McCurry, K, Chiu, P, King-Casas, B (2013) Aggression in social contests in veterans with post-traumatic stress disorder. Poster, Organization for Human Brain Mapping, Seattle, WA.
- Aimone, J, Williams, McCurry, K, Frueh, B, Graham, D, Chiu, P, King-Casas, B (2013) Cognitive processing therapy remediates neural social prediction error signaling in PTSD. Poster, Society for Neuroscience, New Orleans, LA.
- Chung, D, Christopoulos, G, Newton, T, De La Garza, R, King-Casas, B, Chiu, P (2013) Cocaine addicts show increased susceptibility to social influence during risky decision making. Poster, Society for Neuroscience, New Orleans, LA.
- Jenkins, A, Zhu, L, Set, E, Scabini, D, Knight, R, Chiu, P, King-Casas, B, Hsu, M (2013) Dissociable neural mechanisms underlying honesty and altruism. Poster, Society for Neuroscience, New Orleans, LA.
- Lauharatanahirun, N, Kim-Spoon, J, Walters, J, Farley, J, Deater-Deckard, K, Bickel, W, Chiu, P, King-Casas, B (2013) The interaction of reward sensitivity and executive function predicts substance use and neural signature of risk processing in adolescents. Poster, Society for Neuroscience, New Orleans, LA.
- Zhu, L, Rosoff, C, McCurry, K, Frueh, B, Chiu, P, King-Casas, B (2013) Aggression in social contests in veterans with post-traumatic stress disorder. Poster, Society for Neuroscience, New Orleans, LA.
- Zhu, L, Set, E, Hsu, M, Ball, S, Chiu, P, King-Casas, B. (2013) The value of honesty: Neural evidence for lie-averse preferences. Poster, Society for Neuroscience, New Orleans, LA.
- Chung, D, Christopoulos, G, McCurry, K, Newton, T, De La Garza, R, Chiu, P (2012) Neurobehavioral substrates of peer influence on risk preferences of cocaine addicts. Poster, Organization for Human Brain Mapping, Beijing, China.
- Craddock, RC, Lisinski, J, Chiu, P, Mayberg, H, LaConte, S (2012) Real-time tracking and biofeedback of the default mode network. Oral presentation, Organization for Human Brain Mapping, Beijing, China.
- Wang, J, Zhu, L, Tankersley, D, Christopoulos, G, King-Casas, B, Chiu, P (2012) The interaction of feedback and context on learning preferences. Poster, Organization for Human Brain Mapping, Beijing, China.
- Aimone, J, McCurry, K, McNamara, R, Frueh, B, Chiu, P, King-Casas, B (2012) Neural substrates of interpersonal dysfunction in PTSD: Trust without reward. Poster, Society for Neuroscience, New Orleans, LA.
- Chung, D, Christopoulos, G, McCurry, K, Newton, T, De La Garza, R, Chiu, P (2012) Social influence on risky decision-making affects both risk preference and risk perception. Poster, Society for Neuroscience, New Orleans, LA.
- Marsden, K, Ma, W, Deci, E, Ryan, R, Chiu, P (2012) Neural predictors of intrinsic motivation and the impact of external incentive. Poster, Society for Neuroscience, New Orleans, LA.
- McCurry, K, Lindsey, L, McNamara, R, LaConte, S, Frueh, B, King-Casas, B, Chiu, P (2012) Brain state classification of PTSD and comorbid conditions using neural responses to emotional images. Poster, Society for Neuroscience, New Orleans, LA.
- Wang, J, Zhu, L, Tankersley, D, De LaGarza, R, Newton, T, McCurry, K, King-Casas, B, Chiu, P (2012) Neural substrates of learning and valuation in cocaine dependent individuals. Poster, Society for Neuroscience, New Orleans, LA.
- Zhu, L, Chiu, P, King-Casas, B (2012) Neural computations underlying actions in social hierarchy. Poster, Society for Neuroscience, New Orleans, LA.
- Gordon, D, McCurry, K, King-Casas, B, Chiu, P (2011) People's addiction to people: Quantifying trust in interpersonal relationships. Poster, McNair Scholars Summer Research Program Conference, Virginia Tech, Blacksburg, VA.
- Kennedy, W, Lauharatanahirun, N, McCurry, K, Chiu, P, King-Casas, B (2011) The effects of risk preference on risk pooling. Poster, Presented at the McNair Scholars Summer Research Program Conference at Virginia Tech, Blacksburg, VA.

- McCurry, K, Eiseman, J, Gardner, K, Chiu, P, Williams, W, King-Casas, B (2011) Impact of group psychotherapy on neural correlates of trust in veterans with PTSD. Poster, Society for Neuroscience, Washington, DC.
- McCurry, K, Lauharatanahirun, N, De La Garza, R, Newton, T, Chiu, P, King-Casas, B (2011) Neurobehavioral effects of cocaine use in a social dominance task. Poster, Organization for Human Brain Mapping, Quebec City, Canada.
- Teng, EJ, Newsome, MR, Hiatt, EL, Lindsey, L, Chiu, PH (2011) Neural correlates of threat words in PTSD with comorbid panic: A functional MRI case study. Poster, International Society for Traumatic Stress Studies, Baltimore, MD.
- Williams, W, Eiseman, J, McCurry, K, Chiu, P, King-Casas, B (2011) The effectiveness of group psychotherapy in improving trust in veterans with PTSD. Poster, International Society for Traumatic Stress Studies, Baltimore, MD.
- Tankersley, D, Christopoulous, G, King-Casas, B, Chiu, P (2010) Punishment sensitivity predicts BOLD response to prediction errors in reward and avoidance learning, Poster, Organization for Human Brain Mapping, Barcelona, Spain.
- Chiu, P, Lisinski, J, King-Casas, B, Sharp, J, Eagleman, D, Versace, F, Cinciripini, P, LaConte, S (2010) Modulating "crave" and "don't crave" brain states with real-time fMRI neurofeedback in smokers, Poster, Organization for Human Brain Mapping, Barcelona, Spain.
- McCurry, K, Brown, G, De La Garza, R, Newton, T, Chiu, P, King-Casas, B (2010) Neural correlates of aggression in cocaine dependent individuals. Poster, Society for Neuroscience, San Diego, CA.
- Lindsey, L, McCurry, K, Patel, H, LaConte, S, De La Garza, R, Newton, T, King-Casas, B, Chiu, P (2010) Neural substrates of drug use, craving, and executive control in cocaine users. Poster, Society for Neuroscience, San Diego, CA.
- Tankersley, D, McCurry, K, Christopoulos, G, Newton, T, De La Garza, R, King-Casas, B, Chiu, P (2010) Reward and punishment learning associated with differential response to positive and negative prediction errors in stimulant-dependent subjects. Poster, Society for Neuroscience, San Diego, CA.
- Eiseman, J, Graham, D, Frueh BC, Kosten, T, Chiu, P, King-Casas B (2010) Neural substrates of interpersonal function in post-traumatic stress disorder. Poster, Society for Neuroscience, San Diego, CA.
- Lindsey, L, Eiseman, J, Graham, D, Frueh, BC, Kosten, T, King-Casas, B, Chiu, P (2010) Neuroimaging affective phenotypes in depression and post-traumatic stress disorder. Poster, Society for Neuroscience, San Diego, CA.
- Boucher, S, Tankersley, D, Chiu, P (2010) Affective phenotypes exhibit distinct neural response magnitude and duration to emotional sounds. Poster, Society for Neuroscience, San Diego, CA.
- LaConte, S, King-Casas, B, Lisinski, J, Lindsey, L, Eagleman, DM, Cinciripini, PM, Versace, F, Chiu, PH (2009). Modulating real-time fMRI neurofeedback interfaces via craving and control in chronic smokers. Poster, Organization for Human Brain Mapping, San Francisco, CA.
- Lu, J, Christopoulos, G, Chiu, P (2009) Neural substrates of social influence on risk preferences. Poster, Society for Neuroscience, Chicago, IL.
- Chiu, P, King-Casas, B, Cinciripini, P, Versace, F, Eagleman, D, Lisinski, J, Lindsey, L, LaConte, S (2009) Real-time fMRI modulation of craving and control brain states in chronic smokers, Poster, Society for Neuroscience, Chicago, IL.
- Chiu, P, Kayali, A, Kishida, K, Tomlin, D, Klinger, L, Klinger, M, Montague, R (2008). Self responses along cingulate cortex reveal quantitative neural phenotype for high functioning autism. Poster, Cognitive Neuroscience Society, San Francisco, CA.
- Lindsey, L, Brovko, J, Chiu, P (2008). Quantitative characterization of neurobehavioral responses to affective stimuli. Poster, Society for Neuroscience, Washington DC.
- Chiu, P, Lohrenz, T, & Montague, R (2007). Neural responses of sated and unsated smokers on a sequential investment game. *JOCN*, Supplement, 271. Poster, Cognitive Neuroscience Society, New York, NY.
- Chiu, P, Kayali, A, Kishida, K, Tomlin, D, Klinger, L, Klinger, M, Montague, R (2007). Active interpersonal exchange evokes quantitative neural phenotype in autism. Poster, Society for Neuroscience, San Diego, CA.

- Lohrenz, T, Chiu, P, Montague, R (2007). Smokers compute but ignore a fictive error signal in a sequential investment task. Poster, Society for Neuroscience, San Diego, CA.
- Chiu, P, Lohrenz, T, & Montague, PR (2006). Neural signals of sated and unsated smokers in a sequential investment game. Poster, NIDA Mini-Convention: Frontiers in Addiction Research, Atlanta, GA
- Chiu, P & Deldin, P (2006). Emotion-modulated response-monitoring in schizophrenia. Poster, Society for Psychophysiological Research, Vancouver BC, Canada.
- Chiu, P & Deldin, P (2004). Motivated response monitoring in schizophrenia and depression. *Psychophysiology*, 41, S72. Poster, Society for Psychophysiological Research, Santa Fe, NM. *Student poster award
- Gray, H, Ambady, N, Chiu, P, David, D, & Deldin, P (2002). Effects of gender priming on processing of mathematical and verbal stimuli: An ERP investigation. Poster, Society for Personality and Social Psychology, Savannah, GA.
- Ambady, N, Chiu, P, & Deldin, P (2002). High and low prejudiced individuals differ in the CNV to emotional in- and out- group faces. Symposium, Society for Personality and Social Psychology, Savannah, GA.
- Chiu, P & Deldin, P (2002). Cognitive restructuring of EEG asymmetries in depression. Poster, Society for Research in Psychopathology, Montreal, Quebec, Canada.