#### PEARL H. CHIU, PhD

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#### **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 <u>Field</u>: Psychology and Biology, Track in Cognitive Neuroscience

#### AWARDS AND HONORS

2023 - present	Patricia Caldwell Faculty	y Fellow, College of Science,	Virginia Tech
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2022 Virginia Tech Graduate School, College of Science Outstanding Mentor Award

2022, 2023 Virginia Tech Research and Innovation Excellence Recognition

National Public Radio, Source of the Week

2012	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

# trainee co-author

- Kim, D-Y#, Lisinski, J, Caton, M, Casas, B, LaConte, S, <u>Chiu, PH</u> (in press) Regulation of craving for real-time fMRI neurofeedback based on individual classification. *Philosophical Transactions of the Royal Society B*.
- Brown, VM#, Lee, J, Wang, JM#, Casas, B, Chiu, PH (2024) Reinforcement learning-informed queries guide behavioral change. *Clinical Psychological Science*. Online ahead of print: <a href="https://doi.org/10.1177/21677026231213368">https://doi.org/10.1177/21677026231213368</a>
- Hunt, C, Casas, B, Chiu, PH, Smith, LJ, Priorello, L, Lee, K, Etsey, M, Newsome, MR, Williams, MW (2024) Pretreatment characteristics associated with symptom reduction during group cognitive processing therapy versus exposure therapy for PTSD: An exploratory study of Veterans. *Cognitive Behaviour Therapy*, 53, 76-81. https://doi.org/10.1080/16506073.2023.2268277
- Bang, D, Luo, Y, Barbosa, LS, Batten, SR, Hadj-Amar, B, Twomey, T, Melville, N, White, JP, Torres, A, Celaya, J, Ramaiah, P, McClure, SM, Brewer, GA, Bina, RW, Lohrenz, T, Casas, B, Chiu, PH, Vannucci, M, Kishida, KT, Witcher, MR, Montague, PR (2023) Noradrenaline tracks emotional modulation of attention in human amygdala. *Current Biology*. 33, 5003-5010. https://doi.org/10.1016/j.cub.2023.09.074
- 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. <a href="https://doi.org/10.1002/jclp.23307">https://doi.org/10.1002/jclp.23307</a>
- Brown VM\*, Zhu L\*, Solway A\*, Wang, JM\*, McCurry, KL\*, King-Casas, B, Chiu, PH (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. <a href="https://doi.org/10.1073/pnas.1919111117">https://doi.org/10.1073/pnas.1919111117</a>
- Williams, MW, Graham, D, Sciarrino, NA, Estey, M, McCurry, K#, <u>Chiu, PH</u>, King-Casas, B (2020) Does validity measure response affect group cognitive processing therapy (CPT) outcomes in veterans with PTSD? *Military Medicine*, 185, e370-e376. <a href="https://doi.org/10.1093/milmed/usz385">https://doi.org/10.1093/milmed/usz385</a>

- 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. <a href="https://doi.org/10.1016/j.bpsc.2019.09.006">https://doi.org/10.1016/j.bpsc.2019.09.006</a>
  - <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. <a href="https://doi.org/10.1016/j.bpsc.2018.07.009">https://doi.org/10.1016/j.bpsc.2018.07.009</a>
  - <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. <a href="https://doi.org/10.1080/10826084.2017.1407790">https://doi.org/10.1080/10826084.2017.1407790</a>
- 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. <a href="https://doi.org/10.1038/srep44374">https://doi.org/10.1038/srep44374</a>
- 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. <a href="https://doi.org/10.1016/j.neuropsychologia.2017.04.020">https://doi.org/10.1016/j.neuropsychologia.2017.04.020</a>
- 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. <a href="https://doi.org/10.1016/j.neuropsychologia.2016.08.028">https://doi.org/10.1016/j.neuropsychologia.2016.08.028</a>
- 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. <a href="https://doi.org/10.1177/0165025415577825">https://doi.org/10.1177/0165025415577825</a>
- Chung, D#, Christopoulos, G#, King-Casas, B, Ball, S, Chiu, PH (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
  - Commentary 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. <a href="https://doi.org/10.3758/s13415-014-0324-5">https://doi.org/10.3758/s13415-014-0324-5</a>
- Williams, W, Graham, D, McCurry, K\*, Sanders, A, Eiseman, J, Chiu, PH, 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. <a href="https://doi.org/10.1521/bumc.2014.78.4.335">https://doi.org/10.1521/bumc.2014.78.4.335</a>

- Zhu, L#, Jenkins, AC, Set, E, Scabini, D, Knight, RT, Chiu, PH, King-Casas, B, Hsu, M (2014). Damage to dorsolateral prefrontal cortex affects tradeoffs between honesty and self-interest. *Nature Neuroscience*, 17, 1319 1321. <a href="https://doi.org/10.1038/nn.3798">https://doi.org/10.1038/nn.3798</a>
- 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. <a href="https://doi.org/10.1016/j.ijdevneu.2014.05.012">https://doi.org/10.1016/j.ijdevneu.2014.05.012</a>
- King-Casas, B & Chiu, PH (2012). Understanding social function in psychiatric illness through multi-player economic games. *Biological Psychiatry*, 72, 119-125. <a href="https://doi.org/10.1016/j.biopsych.2012.03.033">https://doi.org/10.1016/j.biopsych.2012.03.033</a>
- 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<sup>#</sup>, Deliramich, AN<sup>#</sup>, 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. <a href="https://doi.org/10.1080/07448481.2010.529625">https://doi.org/10.1080/07448481.2010.529625</a>
- Lindsey, L<sup>#</sup>, King-Casas, B, Brovko, J, <u>Chiu, PH</u> (2009). Toward functional neurobehavioral assessment of mood and anxiety. *Conference Proceedings of the IEEE Engineering in Medicine and Biology Society*, 2009, 5393-5396 <a href="https://doi.org/10.1109/IEMBS.2009.5332809">https://doi.org/10.1109/IEMBS.2009.5332809</a>
- <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. <a href="https://doi.org/10.1016/j.neuroimage.2008.04.248">https://doi.org/10.1016/j.neuroimage.2008.04.248</a>
- <u>Chiu, PH, Lohrenz, TM, Montague, PR (2008)</u>. Smokers' brains compute but ignore a fictive error signal in a sequential investment task. *Nature Neuroscience*, 11, 514-520. <a href="https://doi.org/10.1038/nn2067">https://doi.org/10.1038/nn2067</a>
- Chiu, PH, 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] <a href="https://doi.org/10.1016/j.neuron.2007.12.020">https://doi.org/10.1016/j.neuron.2007.12.020</a>
   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. <a href="https://doi.org/10.1176/ajp.2007.164.4.608">https://doi.org/10.1176/ajp.2007.164.4.608</a>
   Commentary in: Oquendo, MA & Parsey, RV (2007). What have we learned about the neurobiology of major depression? <a href="https://doi.org/10.1176/ajp.2007.164.4.608">American Journal of Psychiatry, 164, 540-542.</a>
- Deldin, P & Chiu, P (2005). Cognitive restructuring and EEG in major depression. *Biological Psychology*, 70, 141-151. <a href="https://doi.org/10.1016/j.biopsycho.2005.01.003">https://doi.org/10.1016/j.biopsycho.2005.01.003</a>
- <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. <a href="https://doi.org/10.1162/0898929042947946">https://doi.org/10.1162/0898929042947946</a>

#### CHAPTERS, COMMENTARY, AND SCIENTIFIC OUTREACH PUBLICATIONS

<u>Chiu, PH</u> & King-Casas, B (2021) Can peer pressure help teens make safer decisions? Science Journal for Kids. <u>https://www.sciencejournalforkids.org/articles/can-peer-pressure-help-teens-make-safer-decisions/</u>

- 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. <a href="https://doi.org/10.1017/9781108770880.014">https://doi.org/10.1017/9781108770880.014</a>
- 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. <a href="https://doi.org/10.1037/10477-012">https://doi.org/10.1037/10477-012</a>

#### RESEARCH FUNDING

## **Current support**

#### PI or MPI

NIH/NIMH R01MH122512 Chiu, Montague (MPIs) 07/2022 - 03/2027 Title: Sub-second neurochemistry of error signals and affective processing in depression Goal: Test dopamine and serotonin correlates of depression symptoms

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

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

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

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

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

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

Title: Social influences on choices in adolescent substance use

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

Completed support available upon request.

#### SCIENTIFIC REVIEW AND SERVICE

#### National service

### 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

- 2021 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)
- 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. Chair, 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)
- 2015 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)
- 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)
- NIMH. ZMH1 ERB-S (04), review for applications to RFA-MH-12-100 Dimensional Approaches to Research Classification in Psychiatric Disorders (RDoC R01)
- 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

### University service

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)

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

Undergraduate Scholarship Reviewer (2015)

### Department of Psychology service

Faculty Search Committee, Cognitive Neuroscience and Biopsychology area (2023)

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

Executive Committee (2021 - 2023)

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

Awards Committee, Clinical Science area (2021 - present)

Personnel (Promotion & Tenure) Committee (2019 - 2020; 2023 - present)

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; area renamed Cognitive Neuroscience and Biopsychology in 2023 (2011 - present)

# Fralin Biomedical Research Institute at Virginia Tech Carilion service

Faculty Search Committee, Health Behaviors Research for Cancer Prevention (2023)

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

Postdoctoral Advancement Committee (2021 - present)

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

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

Faculty Search Committee, Health Behaviors (2017 - 2018)

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

Carilion Clinic Research Committee (2012 - 2013)

Faculty Search Committee, Cardio/Cerebrovascular (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) Cong Wang, PhD (postdoc 2024 current; PhD, 2023, Peking University)
- (2) Leonardo Barbosa, PhD (postdoc 2022 current; PhD, 2016, Paris Sciences et Lettres École Normale Supérieure)
- (3) Dong-Youl Kim, PhD (postdoc 2021 2023; research scientist 2024 present; PhD, 2021, Korea University)
- (4) John Wang, PhD (postdoc 2020 2022; research scientist 2023 present; PhD, 2020, Virginia Tech)
- (5) Flora Li, PhD (PhD, 2019, Virginia Tech); postdoc 2019 2021; now tenure track Assistant Professor at Nanjing Audit University, China.
- (6) 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
- (7) 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
- (8) 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
- (9) George Christopoulos, PhD (PhD, 2008, Cambridge University); postdoc 2008 2011; now Associate Professor with tenure at Nanyang Business School, Nanyang Technical University, Singapore
- (10) 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 2025)
- (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 Emory University
- (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)

Baylor College of Medicine, Dept of Neuroscience (2008 - 2010): (1) Erika Perez; (2) Danny Jenson; (3) Josepheen De Asis Cruz; (4) Alycia Yarnall; (5) Yong Cui. Virginia Tech (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

Abby Craig, 2023 - present; Olivia Murray, 2023 - present; (1) Clare Hogan, 2022 - present; (2) Carey Caldwell, 2022 - present; (3) Grace Collins, 2021 - present; (4) Isaac Levy, 2021 - present; (5) Alex Pettus, 2021 - 2023; (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

### <u>Undergraduate research assistants</u>

Ethan Nichols, 2023 - present; (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;

# <u>Undergraduate research assistants</u>

(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	<b>Senior Common Room Member</b> (non-resident advisor), Cabot House, Harvard University.
2000 - 2005	Academic Advisor, Department of Psychology, Harvard University.
2000 - 2003	<b>Research Supervisor</b> , Department of Psychology, Harvard University. Supervised undergraduate research assistants and students conducting honors thesis research.
Courses	
2020	Block Director, Brain and Cognitive Science; Translational Biology, Medicine, and

Health Gateway Course (TBMH 5004), Virginia Tech. Mean teaching rating: 4.38/5

Course Director, Fundamentals in Brain and Cognitive Science (TBMH 5074),
Virginia Tech. Mean teaching rating: 5.6/6

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

Teaching Fellow, Laboratory in Psychophysiology (Psy 1856r), Harvard University.

Overall rating: 4.9/5.0

### **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.

BUM 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). Supervisor: Patricia Deldin, PhD

**MEMBERSHIPS** 

Association for Behavioral and Cognitive Therapies (2018 - present)

Society for Research in Psychopathology (2017 - present; <u>Chair</u>, Membership Committee, 2017 - 2023)
Society of Biological Psychiatry (2015 - present)
Human Brain Mapping (2007 - present)
Society for Neuroscience (2006 - present)