

PEARL H. CHIU, PhD

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Roanoke VA 24016
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EDUCATION AND EMPLOYMENT

Associate Professor 07/2016 - present **Virginia Tech Department of Psychology (with tenure), Blacksburg VA; Fralin Biomedical Research Institute at VT Carilion**

Assistant Professor 12/2010 - 06/2016 **Virginia Tech Department of Psychology, Blacksburg VA; Virginia Tech Carilion Research Institute & School of Medicine, Roanoke VA.**

Research Scientist 2011 - present **Salem Veterans Affairs Medical Center, Salem VA**

Assistant Professor 2007 - 2010 **Baylor College of Medicine, Department of Neuroscience and Menninger Department of Psychiatry and Behavioral Sciences (Adjunct 2011 - 2013); Michael E. DeBakey Veterans Affairs Medical Center (Research Scientist)**

Post-doc Fellow 2006 - 2007 **Baylor College of Medicine, Department of Neuroscience Human Neuroimaging Lab (PI: Read Montague, PhD)**

PhD 2006 **Harvard University, Cambridge, MA**
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 2004 **Harvard University, Cambridge, MA**
Field: Psychology

Lab Coordinator 1998 - 2000 **Harvard University, Cambridge, MA**
Interpersonal Perception and Communication Lab (PI: Nalini Ambady, PhD)

AB 1998 **Harvard University, Cambridge, MA**
Field: Psychology and Biology, Track in Cognitive Neuroscience

AWARDS AND HONORS

2022 **Virginia Tech Research and Innovation Excellence Recognition**

2022 **Virginia Tech Graduate School, College of Science Outstanding Mentor Award**

2015 **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. Distinction for interdisciplinary research**

2001 **Bok Certificate of Distinction in Teaching**, Harvard University. 4.9/5.0 teaching rating
 2001 **Vincent Prize**. 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*, Chiu, PH*, 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*, 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#, Chiu, PH*, 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, Chiu, PH*, 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>
- Commentary 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, Chiu, PH* (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>
- Commentary 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*, Chiu, PH* (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, Chiu PH, 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, Chiu, PH, 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, Chiu, P, 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, 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. <https://doi.org/10.3758/s13415-014-0324-5>
- 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. <https://doi.org/10.1521/bumc.2014.78.4.335>
- 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. <https://doi.org/10.1038/nn.3798>
- White, SW, Mazefsky, CA, Dichter, GS, Chiu, PH, 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, Chiu, PH, 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>
- Chiu, PH*, 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>

- Chiu, PH, 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>
- Chiu, PH, Kayali, MA, Kishida, KT, Tomlin, D, Klingner, LG, Klingner, 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>
- Chiu, P, 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>
- Chiu, PH & 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, Chiu, P, & 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

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| R01MH122512 NIH/NIMH | 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 | | |
| R01AA029222 NIH/NIAAA | Chiu (PI) | 09/2021 - 05/2026 |

T32-MH18882 Chiu (Postdoctoral Fellow) 06/2006 - 07/2007
NIH/NIMH American Psychological Association Diversity Program in Neuroscience Postdoctoral Fellowship

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)
- 2021 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)
- 2020 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)
- 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

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)
- 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

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)

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 Stregue; (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.

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| 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. |

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
- 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 Director Anthony LaMantia).
- 2020 **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 **Virginia Tech**. “Neural substrates of reinforcement learning: Toward understanding & treating substance dependence.” (Course number NEUR 4984, “Neuroeconomics”; Course Director Sheryl Ball).
- 2013 **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

- 2021 **Virginia Tech, Computational Tissue Engineering training group.** “Computational psychiatry: A possible way forward for depression.”
- 2020 **University of Hawaii at Hilo.** "Associability modulated loss learning in PTSD" (via Zoom due to COVID-19)
- 2018 **Computational Psychiatry 2018, Society for Neuroscience Pre-conference, San Diego CA.** “Computational psychiatry of depression and anxiety: a didactic introduction.”
- 2017 **Computational Psychiatry 2017.** “Computational Psychiatry of depression and PTSD.”
- 2016 **Women’s Health Virginia, Annual Conference on Women’s Health.** “Depression and its neuroscience.”
- 2016 **Society of Biological Psychiatry, Atlanta, GA.** “Reinforcement learning parameters of behavioral treatment response in depression.”
- 2015 **Society for Research in Psychopathology, New Orleans, LA.** “Understanding social functioning across psychopathologies through valuation and decision-making.”
- 2015 **Brain School, Brain Awareness Week, Virginia Tech Carilion Research Institute.** "Building blocks of the social brain"
- 2015 **National Advisory Mental Health Council, National Institute of Mental Health.** “Toward a computational psychiatry,” Invited panel member, Biobehavioral Research Awards for Innovative New Scientists (BRAINS) Awardee Panel.
- 2014 **St. Albans Psychiatric Conference, Roanoke VA.** "Translational neuroimaging in psychiatry: An overview and examples from depression."
- 2014 **Virginia Tech Presidential Installation of Timothy Sands, 16th President of Virginia 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.** "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 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.** "Measuring and modulating control signals in smokers"
- 2009 **Baylor College of Medicine, Imaging in Psychiatry, Residents' Seminar Series.**
- 2009 **Rush and Helen Record Forum.** "Translational fMRI: Applications for depression and addiction"
- 2009 **31st Annual International IEEE Engineering in Medicine and Biology Society 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.**

CLINICAL TRAINING

- 07/2005 - 07/2006 **Baylor College of Medicine, Menninger Department of Psychiatry, Human Neuroimaging Laboratory, Houston, TX. Adult Clinical Neuroscience Track.** Clinical Psychology Internship (APA Accredited) 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 **Behavioral Health Partial Program, McLean Hospital, Belmont, MA.** Practicum 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; 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)