

BROOKS R. KING-CASAS

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EDUCATION AND EMPLOYMENT

1996 AB	Harvard University, Cambridge, MA <u>Field:</u> Philosophy
2005 PhD	Harvard University, Cambridge, MA. <u>Thesis:</u> Delusions, Memory and Negative Affect in Schizophrenia and Schizoaffective Disorders <u>Field:</u> Psychology (Experimental Psychopathology)
2005 - 2007 Postdoc Fellow	Baylor College of Medicine, Department of Neuroscience, Houston, TX <u>Mentor:</u> P. Read Montague, PhD
2007 - 2010 Assistant Professor	Baylor College of Medicine, Department of Neuroscience and Menninger Department of Psychiatry and Behavioral Sciences, Houston, TX
2008 - 2011 Research Scientist	Michael E DeBakey VA Medical Center, Research Service Line, Houston, TX
2010 - 2016 Assistant Professor	Virginia Tech, Fralin Biomedical Research Institute and Department of Psychology, Roanoke/Blacksburg, VA
2011 - present Research Scientist	Salem VA Medical Center, Research Service Line, Salem, VA
2011 - 2016 Assistant Professor	Virginia Tech Carilion School of Medicine, Department of Psychiatry and Behavioral Medicine, Roanoke, VA
2011 - present Core Faculty	Virginia Tech, School of Biomedical Engineering and Sciences, Blacksburg, VA
2013 - present	Virginia Tech, Faculty of Health Sciences, Blacksburg, VA
2016 - present Adjunct Asso. Prof.	Virginia Tech, School of Neuroscience, Blacksburg, VA
2016 - present Associate Professor	Virginia Tech, Fralin Biomedical Research Institute, Roanoke, VA
2016 - present Associate Professor	Virginia Tech, Department of Psychology, Blacksburg, VA
2017 - present Affiliate Asso. Prof.	Virginia Tech, Department of Economics, Blacksburg, VA

AWARDS AND HONORS

1997-1998	Harvard University Graduate Prize Fellowship.
1998-2001	Ford Foundation Predoctoral Fellowship.
1998-2000	Sackler Fellowship in Psychobiology.

1999-2002	McMasters Prize for Research , Harvard University.
1999-2002	Stimson Prize for Research , Harvard University.
2002-2003	Harvard University Graduate Prize Fellowship .
2006-2007	American Psychological Association Diversity Program in Neuroscience Postdoctoral Fellowship (declined).
2006-2007	Individual Ruth L. Kirschstein National Research Service .
2011	Virginia Tech Scholar of the Week , July 9
2012	Kavli Frontier in Science Fellow , National Academy of Science

PROFESSIONAL DEVELOPMENT AND CONTRIBUTIONS

Member: Society for Neuroscience; Cognitive Neuroscience Society; Organization for Human Brain Mapping; Association for Psychological Science.

Service: **International:** Reviewer, Clinical Research Center of Geneva, Switzerland (2012).

National: National Institutes of Health CSR Advisory Council Working Group to Simplify Review Criteria (2020); Special Emphasis Scientific Review Panel ZMH1 ERB-D (03), review for applications to RFA-MH-16-406 Exploratory Clinical Trials of Novel Interventions for Mental Disorders (R61/R33), 2015; ZRG1 BBBP-J (03), Stress and Psychopathology, 2017; ZRG1 BBBP-J (02), Emotion, Substance Use, and Psychopathology, 2017. Department of Veterans Affairs Rehabilitation Research and Development Service, Department of Veterans Affairs: Scientific Merit Review Panel (2009, 2010, 2011); Rehabilitation Research and Development Service, Department of Veterans Affairs: Career Development Award Panel (2014, 2015). Other Program Committee Member, Society for Psychophysiological Research (2000).

Baylor College of Medicine: Department of Neuroscience, Faculty Search Committee (2006-2008); Department of Neuroscience, Seminar Series (2009-2010); Institutional Diversity Council (2009-2010).

Virginia Tech: Research Curriculum Committee, Virginia Tech Carilion School of Medicine (2011); Advisory Board for the Office of Undergraduate Research (2011-2012); Translational Biology, Medicine, and Health Program: Admission Committee (2013-present); Translational Biology, Medicine, and Health Program: Curriculum Committee (2014-present); Department of Economics: Faculty Search Committee (2014-2015); Department of Psychology: Faculty Search Committee (2015-2016, 2018); Virginia Tech Carilion Research Institute, Faculty Search Committee, (2017-2018); Steering Committee for College of Science Faculty Association (2018-present);

PUBLICATIONS

Google Scholar citations 4,206; h-index 21; i10-index 35

Deldin, PJ, Deveney, CM, Kim, A, Casas, B, Best, J (2001). A slow wave investigation of working memory

- biases in mood disorders. *Journal of Abnormal Psychology* 110:267-81. [doi:10.1037/0021-843X.110.2.267](https://doi.org/10.1037/0021-843X.110.2.267)
- King-Casas, B, Tomlin, D, Anen, C, Camerer, CF, Quartz, SR, Montague, PR (2005). Getting to know you: Reputation and trust in a two-person economic exchange. *Science* 308:78-83, [doi:10.1126/science.1108062](https://doi.org/10.1126/science.1108062)
- Commentary: Miller, G (2005). Economic game shows how the brain builds trust. *Science* 308:36, [doi:10.1126/science.308.5718.36a](https://doi.org/10.1126/science.308.5718.36a)
- Deldin, P, Keller, J, Casas, BR, Best, J, Gergen, J, Miller, G (2006). Normal N400 in mood disorders. *Biological Psychology* 71:74-79, [doi:10.1016/j.biopsycho.2005.02.005](https://doi.org/10.1016/j.biopsycho.2005.02.005)
- Montague, PR, King-Casas, B, Cohen, JD (2006). Imaging valuation models in human choice. *Annual Review of Neuroscience* 29:417-448, [doi:10.1146/annurev.neuro.29.051605.112903](https://doi.org/10.1146/annurev.neuro.29.051605.112903)
- Tomlin, D, Kayali, MA, King-Casas, B, Anen, C, Camerer, CF, Quartz, SR, Montague, PR (2006). Agent-specific responses in cingulate cortex during economic exchanges. *Science* 312:1047-1050, [doi:10.1126/science.1125596](https://doi.org/10.1126/science.1125596)
- Li, J, McClure, SM, King-Casas, B, Montague, PR (2006). Policy adjustment in dynamic economic game. *PLoS ONE* 1(1):e103, [doi:10.1371/journal.pone.0000103](https://doi.org/10.1371/journal.pone.0000103)
- Montague, PR, King-Casas, B (2007). Efficient statistics, common currencies and the problem of reward-harvesting. *Trends in Cognitive Sciences* 11:514-519. [doi:10.1016/j.tics.2007.10.002](https://doi.org/10.1016/j.tics.2007.10.002)
- Casement, MD, Shestyuk, AY, Best, JL, Casas, B, Glezer, A, Segundo, MA, Deldin, PJ (2008). Anticipation of affect in dysthymia: Behavioral and neurophysiological indicators. *Biological Psychology* 77:197-204. [doi:10.1016/j.biopsycho.2007.10.007](https://doi.org/10.1016/j.biopsycho.2007.10.007)
- King-Casas, B, Sharp, C, Lomax-Bream, L, Lohrenz, T, Fonagy, P, Montague, PR (2008). The rupture and repair of cooperation in borderline personality disorder. *Science* 321:806-810. [doi:10.1126/science.1156902](https://doi.org/10.1126/science.1156902)
- Commentary: Meyer-Lindenberg, A (2008) Trust me on this. *Science* 321:778-780. [doi:10.1126/science.1162908](https://doi.org/10.1126/science.1162908)
- Rilling, JK, King-Casas, B, Sanfey, A (2008). The neurobiology of social decision-making. *Current Opinion in Neurobiology* 18:159-165. [doi:10.1016/j.conb.2008.06.003](https://doi.org/10.1016/j.conb.2008.06.003)
- Ray, D, King-Casas, B, Montague, PR, Dayan, P (2008). Bayesian model of behavior in economic games. *Advances in Neural Information Processing Systems* 21.
- Deldin, PJ, Naidu, SK, Shestyuk, AY, Casas, BR (2009). Neurophysiological indices of free recall memory biases in major depression: The impact of stimulus arousal and valence. *Cognition & Emotion* 23:1002-20. [doi:10.1080/02699930802273573](https://doi.org/10.1080/02699930802273573)
- Lindsey, L, King-Casas, B, Brovko, J, Chiu, PH (2009). Toward functional neurobehavioral assessment of mood and anxiety. *Conf Proc IEEE Eng Med Biol Soc*.
- Klumpp, H, Keller, J, Miller, GA, Casas, BR, Best, JL, Deldin, PJ (2010). Semantic processing of emotional words in depression and schizophrenia. *International Journal of Psychophysiology* 75:211-215. [doi:10.1016/j.ijpsycho.2009.12.004](https://doi.org/10.1016/j.ijpsycho.2009.12.004)
- Kishida, K, King-Casas, B, Montague, PR (2010). Neuroeconomic approaches to mental disorders. *Neuron* 67:543-54. [doi:10.1016/j.neuron.2010.07.021](https://doi.org/10.1016/j.neuron.2010.07.021)
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- D'Andrea W, Chiu, P, Casas, B, Deldin, P. (2012). Linguistic predictors of PTSD symptoms following September 11, 2001. *Applied Cognitive Psychology* 26:316-323. [doi:10.1002/acp.1830](https://doi.org/10.1002/acp.1830)
- King-Casas, B & Chiu, PH (2012). Understanding social function in psychiatric illness through multi-player economic games. *Biological Psychiatry* 72:119-25. [doi:10.1016/j.biopsych.2012.03.033](https://doi.org/10.1016/j.biopsych.2012.03.033)

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- Lee, MR, Glassman, M, [King-Casas, B](#), Kelly, DL, Stein, EA, Schroeder, J, Salmeron, BJ (2014). Complexity of oxytocin's effects in a chronic cocaine dependent population. *European Neuropsychopharmacology* 24:1483-91. [doi:10.1016/j.euroneuro.2014.06.005](https://doi.org/10.1016/j.euroneuro.2014.06.005)
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 Commentary in: Smith, DV & Delgado, MR (2015) Social nudges: utility conferred from others. *Nature Neuroscience* 18, 791 – 792. [doi:10.1038/nn.4031](https://doi.org/10.1038/nn.4031)
- Idelson, CR, Vogt, WC, [King-Casas, B](#), LaConte, SM, Rylander, CG (2015) Effect of mechanical optical clearing on near-infrared spectroscopy. *Lasers in Surgery & Medicine* [doi:10.1002/lsm.22373](https://doi.org/10.1002/lsm.22373)
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- 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(1):58-63. [doi://10.1177/0165025415577825](https://doi.org/10.1177/0165025415577825)
- Aimone JA, Ball S, [King-Casas B](#) (2016). It's not what you see but how you see it: Using eye-tracking to study the risky decision-making process. *Journal of Neuroscience, Psychology, and Economics* 9(3-4):137-144. [doi://10.1037/npe0000061](https://doi.org/10.1037/npe0000061)
- 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. [doi://10.1016/j.neuropsychologia.2016.08.028](https://doi.org/10.1016/j.neuropsychologia.2016.08.028)
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- Kahn RE, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J (2016). Intergenerational similarity in callous-unemotional traits: Contributions of hostile parenting and household chaos during adolescence. *Psychiatry Research* 246:815-820. [doi://10.1016/j.psychres.2016.10.023](https://doi.org/10.1016/j.psychres.2016.10.023)
- Chung D, Kadlec K, Aimone JA, 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. [doi://10.1038/srep44374](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. [doi://10.1016/j.neuropsychologia.2017.04.020](https://doi.org/10.1016/j.neuropsychologia.2017.04.020)

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- Kim-Spoon J, Maciejewski D, Lee J, Deater-Deckard K, [King-Casas B](#) (2017). Longitudinal associations among family environment, neural cognitive control, and social competence among adolescents. *Developmental Cognitive Neuroscience* 26:69-76. [doi://10.1016/j.dcn.2017.04.009](https://doi.org/10.1016/j.dcn.2017.04.009)
- Kim-Spoon J, Deater-Deckard K, Lauharatanahirun N, Farley JP, Chiu PH, Bickel WK, [King-Casas B](#) (2017). Neural interaction between risk sensitivity and cognitive control predicting health risk behaviors among late adolescents. *Journal of Research on Adolescence* 27:674-682. [doi://10.1111/jora.12295](https://doi.org/10.1111/jora.12295)
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- Lauharatanahirun N, Maciejewski D, Holmes C, Deater-Deckard K, Kim-Spoon J, [King-Casas B](#) (2018). Neural correlates of risk processing among adolescents: Influences of parental monitoring and household chaos. *Child Dev* 89(3):784-796. [doi://10.1111/cdev.13036](https://doi.org/10.1111/cdev.13036)
- Brieant A, Holmes CJ, Maciejewski D, Lee J, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J (2018). Positive and negative affect and adolescent adjustment: Moderation effects of prefrontal functioning. *J Res Adolesc* 28:40-55. [doi://10.1111/jora.12339](https://doi.org/10.1111/jora.12339)
- Maciejewski D, Lauharatanahirun N, Herd T, Lee J, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J (2018). Neural cognitive control moderates the association between insular risk processing and risk-taking behaviors via perceived stress in adolescents. *Dev Cogn Neurosci* 30:150-158. [doi://10.1016/j.dcn.2018.02.005](https://doi.org/10.1016/j.dcn.2018.02.005)
- Brieant A, Holmes CJ, Maciejewski D, Lee J, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J (2018). Positive and negative affect and adolescent adjustment: Moderation effects on prefrontal functioning. *Journal of Research on Adolescence* 28:40-55. [doi://10.1111/jora.12339](https://doi.org/10.1111/jora.12339)
- Herd T, Li M, Maciejewski D, Lee J, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J (2018). Inhibitory control mediates the association between perceived stress and secure relationship quality. *Frontiers in Psychology* 9:217. [doi://10.3389/fpsyg.2018.00217](https://doi.org/10.3389/fpsyg.2018.00217)
- Maciejewski D, Brieant A, Lee J, [King-Casas B](#), Kim-Spoon J. (2018). Neural cognitive control moderates the relation between negative life events and depressive symptoms in adolescents. *J Clin Child Adolesc Psychol* 7:1-16. [doi://10.1080/15374416.2018.1491005](https://doi.org/10.1080/15374416.2018.1491005)
- 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. *Subst Use Misuse* 53:1299-1310. [doi://10.1080/10826084.2017.1407790](https://doi.org/10.1080/10826084.2017.1407790)
- Kim-Spoon J, Deater-Deckard K, Calkins SD, [King-Casas B](#), Bell MA. (2019). Commonality between executive functioning and effortful control related to adjustment. *J Appl Dev Psychol* 60:47-55. [doi://10.1016/j.appdev.2018.10.004](https://doi.org/10.1016/j.appdev.2018.10.004)
- Wang JM, Zhu L, Brown VM, De La Garza 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. *Biol Psychiatry Cogn Neurosci Neuroimaging* 4:291-299. [doi://10.1016/j.bpsc.2018.07.009](https://doi.org/10.1016/j.bpsc.2018.07.009)
- Peviani KM, Kahn RE, Maciejewski D, Bickel WK, Deater-Deckard K, [King-Casas B](#), Kim-Spoon J. (2019). Intergenerational transmission of delay discounting: The mediating role of household chaos. *J Adolesc*. 72:83-90. [doi://10.1016/j.adolescence.2019.03.002](https://doi.org/10.1016/j.adolescence.2019.03.002)
- Kim-Spoon J, Lauharatanahirun N, Peviani K, Brieant A, Deater-Deckard K, Bickel WK, [King-Casas B](#). (2019). Longitudinal pathways linking family risk, neural risk processing, delay discounting, and adolescent substance use. *J Child Psychol Psychiatry* 60:655-664. [doi://10.1111/jcpp.13015](https://doi.org/10.1111/jcpp.13015)

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- Kim-Spoon J, Deater-Deckard K, Briant A, Lauharatanahirun N, Lee J, [King-Casas B](#). (2019). Brains of a feather flocking together? Peer and individual neurobehavioral risks for substance use across adolescence. *Dev Psychopathol* 31:1661-1674. [doi://10.1017/S0954579419001056](https://doi.org/10.1017/S0954579419001056)
- Peviani KM, Briant A, Holmes CJ, [King-Casas B](#), Kim-Spoon J. (2019). Religious social support protects against social risks for adolescent substance use. *J Res Adolesc* [doi://10.1111/jora.12529](https://doi.org/10.1111/jora.12529)
- Deater-Deckard K, Li M, Lee J, [King-Casas B](#), Kim-Spoon J. (2019). Poverty and puberty: A neurocognitive study of inhibitory control in the transition to adolescence. *Psychol Sci* 30:1573-1583. [doi://10.1177/0956797619863780](https://doi.org/10.1177/0956797619863780)
- Li M, Lauharatanahirun N, Steinberg L, [King-Casas B](#), Kim-Spoon J, Deater-Deckard K. (2019). Longitudinal link between trait motivation and risk-taking behaviors via neural risk processing. *Dev Cogn Neurosci* 40:100725. [doi://10.1016/j.dcn.2019.100725](https://doi.org/10.1016/j.dcn.2019.100725)
- Elder J, Briant A, Lauharatanahirun N, [King-Casas B](#), Kim-Spoon J. (2019). Insular risk processing predicts alcohol use via externalizing pathway in male adolescents. *J Stud Alcohol Drugs* 80:602-613. [doi://10.15288/jsad.2019.80.602](https://doi.org/10.15288/jsad.2019.80.602)
- Williams MW, Graham D, Sciarrino NA, Esty M, McCurry K, Chiu P, [King-Casas B](#). (2020). Does validity measure response affect group CPT outcomes in veterans with PTSD? *Military Medicine* 185:e370-e376. [doi://10.1093/milmed/usz385](https://doi.org/10.1093/milmed/usz385)
- McCurry KL, Frueh BC, Chiu PH, [King-Casas B](#). (2020). Opponent effects of hyperarousal and re-experiencing on affective habituation in posttraumatic stress disorder. *Biol Psychiatry Cogn Neurosci Neuroimaging* 5(2):203-212. [doi://10.1016/j.bpsc.2019.09.006](https://doi.org/10.1016/j.bpsc.2019.09.006)
- Herd T, [King-Casas B](#), Kim-Spoon J. (2020). Developmental changes in emotion regulation during adolescence: Associations with socioeconomic risk and family emotional context. *J Youth Adolesc* 49:1545-1557. [doi://10.1007/s10964-020-01193-2](https://doi.org/10.1007/s10964-020-01193-2)
- Asscheman JS, Deater-Deckard K, Lauharatanahirun N, van Lier PAC, Koot S, [King-Casas B](#), Kim-Spoon J. (2020). Associations between peer attachment and neural correlates of risk processing across adolescence. *Dev Cogn Neurosci* 42:100772. [doi://10.1016/j.dcn.2020.100772](https://doi.org/10.1016/j.dcn.2020.100772)
- Kim-Spoon J, Herd T, Briant A, Peviani KM, Lauharatanahirun N, Lee J, Deater-Deckard K, Bickel WK, [King-Casas B](#). (2020). Bidirectional links between adolescent brain function and substance use moderated by cognitive control. *J Child Psychol Psychiatry* [doi://10.1111/jcpp.13285](https://doi.org/10.1111/jcpp.13285)

RESEARCH SUPPORT

Ongoing Research Support

- | | |
|---|--|
| R01 MH122948
NIH/NIMH
Direct sub-second measurement of neuromodulator signaling during risky decision-making
This award will combine electrochemistry and machine learning methods to directly measure serotonin, norepinephrine and dopamine in humans on a sub-second basis to investigate the neurocomputational role of these neurotransmitters in risky choice.
Role: PI | King-Casas/Montague (MPI) 04/08/20 - 02/28/25 |
| R01 DA036017
NIH/NIDA
Neurobehavioral determinants of health risk behaviors: From adolescence to young adulthood | King-Casas/Kim-Spoon (MPI) 09/15/13 - 06/30/23 |

This project uses a neuroeconomic approach to study developmental trajectories of risky decision-making in a longitudinal sample transitioning from adolescence into young adulthood.

Role: PI

R25 GM066534 Smith (PI) 08/04/03 - 06/30/23

NIH/NIGMS

The Virginia Tech Postbaccalaureate Research and Education Program

The research and education program seeks to 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

R01 MH115221 King-Casas (PI) 02/01/18 - 12/31/22

NIH/NIMH

Neurobehavioral mechanisms of social dysfunction in Borderline Personality Disorder

This project will use computational models of social behavior and functional magnetic resonance imaging to evaluate interpersonal dysfunction in Borderline Personality Disorder.

Role: PI

R25 NS105141 Fox (PI) 01/01/18 - 12/31/22

NIH/NINDS

Virginia Tech Carilion Research Institute Translational Neurobiology Summer Undergraduate Research Fellowship

This program seeks to provide research experiences to undergraduate and high school students in translational neurobiology research and to expose students to independent research early in their careers.

Role: Program Faculty

Merit D2354R King-Casas (PI) 07/01/18 - 06/30/22

VA/RR&D

Efficacy and neural mediators of response to TMT for PTSD

The study will investigate neural mechanisms of treatment using functional magnetic resonance imaging and probes of affective and social behavior.

Role: PI

R25 GM072767 Smith (PI) 01/11/07 - 04/30/22

NIH/NIGMS

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

This training program seeks to develop and train underrepresented minorities in acquiring skills needed to succeed in Ph.D. programs and biomedical and behavioral research.

Role: Program Faculty

R01 MH115221-02S1 King-Casas (PI) 02/01/18 - 12/31/21

NIH/NIMH

Neurobehavioral mechanisms of social dysfunction in borderline personality disorder

This diversity supplement supports the training and development of a postbaccalaureate trainee.

Role: PI

R01 MH106756 Chiu (PI) 02/01/16 - 12/31/20

NIH/NIMH

Neural substrates of reinforcement learning and its training in depression

This project will use neurocomputational methods to study and improve learning in depression.

Role: Co-I

Completed Research Support

DP7 OD018428 Friedlander/Van Wart (MPI) 09/20/13 - 08/31/20
 NIH/OD
 Mentorship and Development Program for Biomedical Trainees (BEST)
 This mentorship and development program will provide early development and guidance for biomedical trainees.
 Role: Program Faculty

R01 HD074574 Ramey/DeLuca (MPI) 03/01/14 - 02/29/20
 NIH/NICHHD
 Multisite RCT of 3 neurorehabilitation therapies for infants with asymmetrical CP
 This award will evaluate the effectiveness of constraint-induced movement therapy for infants with cerebral palsy, and use functional near infrared spectroscopy to evaluate therapy-related changes in cortical activity.
 Role: Co-I

N/A Katz (PI) 12/15/17 - 06/30/18
 Adaptive Brain & Behavior Request for Concepts 2017, Virginia Tech
 tDCS modulation of risky decision making
 Seed money support for work focused on modulation of neural mechanisms of risky choice.
 Role: Co-I

N/A Chiu (PI) 12/15/17 - 06/30/18
 Adaptive Brain & Behavior Request for Concepts 2017, Virginia Tech
 Toward mental health through decision neuroscience
 Seed money support for work focused on developing behavioral interventions to modify reinforcement learning abnormalities associated with depression and anxiety.
 Role: Co-I

N/A King-Casas (PI) 11/15/17 - 06/30/18
 Data & Decisions Request for Concepts 2017, Virginia Tech
 Social influence on risky decision-making in adolescents
 Seed money support for work focused on neural mechanisms of social influence in adolescents.
 Role: PI

N/A Montague (PI) 05/01/11 - 04/30/18
 Wellcome Trust
 Computational neuroscience of social behavior and psychopathology
 This award will support the development of computational models of decision-making to examine developing psychopathologies.
 Role: Collaborator

F31 DA042594 Lauharatanahirun (PI) 08/15/16 - 09/14/17
 NIH/NIDA
 Neurobehavioral mechanisms of substance use and protective behaviors in adolescents
 This training fellowship will provide training in the use of economic models of choice and neuroimaging to investigate adolescent decision-making related to substance use.
 Role: Sponsor

N/A King-Casas/Kim-Spoon (MPI) 12/15/16 - 05/31/17
 Institute for Society, Culture and Environment Scholars Program, Virginia Tech
 Neurobehavioral determinants of adolescent substance use and HIV/STD
 Seed money support of resting-state and task-based connectivity analyses of adolescence data.
 Role: PI

R01 MH087692 Chiu (PI) 07/01/10 - 03/31/16
 NIH/NIMH

Neurobehavioral metrics for the assessment and treatment of depression

This study will identify quantitative neural predictors of domain-specific response to CBT in depression.

Role: Co-I

R01 MH091872 Chiu (PI) 06/03/10 - 03/31/16

NIH/NIMH

Neuroimaging major depression and nicotine dependence on axes of valuation

The study will identify and refine a common neurobehavioral space within which anomalies of valuation in depression and nicotine dependence may be understood.

Role: Co-I

R01 MH085496 Montague (PI) 06/15/10 - 03/21/16

NIH/NIMH

Neural economics of biological substrates of valuation

This study will use functional magnetic resonance imaging, staged social interactions, and computational theory to probe the way that humans carry out reciprocal social exchange.

Role: Co-I

MOE2012-T2-1-051 Hong (PI) 01/01/13 - 12/31/15

Ministry of Education, Singapore / Academic Research Fund

Discovering the cognitive and neurological basis of cultural competence

This award examines the acquisition of cultural information in learning and decision-making.

Role: Collaborator

CDA-2 B7496W Graham (PI) 01/01/11 – 12/31/14

VA/RR&D

Identifying biologic markers for TBI recovery with fMRI and behavioral tests

This award will support mid-career development through a research project investigating recovery-related changes in neural activity and behavioral performance in OEF/OIF veterans with mTBI.

Role: Mentor

Merit D7030R King-Casas (PI) 10/01/09 – 09/30/13

VA/RR&D

Neurobehavioral assessment of interpersonal functioning in PTSD

The study will investigate neural correlates of interpersonal difficulties in OEF/OIF veterans with PTSD.

Role: PI

R21/R33 DA026086 Chiu/LaConte (PIs) 09/15/08 - 06/30/13

NIH/NIDA

Localized and distributed real-time fMRI approaches to facilitate self-control in substance abusers

This study will investigate the utility of real-time neurofeedback as a novel therapeutic approach for the treatment of nicotine abuse.

Role: Co-I

B7760P Williams (PI) 04/01/11 – 03/31/13

VA/RR&D

Neuroimaging the impact of treatment on neural substrates of trust in PTSD

The study will investigate treatment-related changes in neural correlates of interpersonal functioning in OEF/OIF veterans with PTSD.

Role: Co-I

Rehabilitation Research Center of Excellence Arlinghaus/Levin (PIs) 07/01/09 – 09/30/11

VA/ORD

Neurorehabilitation: Neurons to Networks Center of Excellence

The Center of Excellence will support research on blast-related mild TBI, including neuroimaging research underlying decision-making abnormalities.

Role: Project PI

F32 MH07845

King-Casas (PI)

07/01/06 - 06/30/07

NIH/NIMH

Learning signals within an iterated social exchange

Role: PI

TEACHING AND ADVISING

Undergraduate student training

- 1999 - 2003 **Research Supervisor**, Department of Psychology, Harvard University. Supervised undergraduate research assistants and students conducting honors thesis research.
- 1999 - 2002 **Teaching Fellow**, Laboratory in Psychophysiology, (Psy 1856r), Harvard University.
Teaching Fellow, Psychophysiology, (Psy 1802), Harvard University.
Teaching Fellow, Mood Disorders, (Psy 1855), Harvard University.
- 2007 - 2010 **Research Supervisor**, Department of Neuroscience, Baylor College of Medicine. Supervised undergraduate project interns assisting in all aspects of research in the laboratory. (1) Magdalena Wistuba, 2007 - 2010, Rice University; (2) Sam Soundar, 2008 - 2009, Rice University; (3) Christina Brovko, Summer 2008, UC Riverside; (4) Andrew Thompson, 2008 - 2009, Rice University; (5) Betsy Ohrn, Spring 2009, Rice University; (6) Noemie Levy, Spring 2009, Rice University; (7) Allen Liao, 2009 - 2010, Rice University; (8) Jamie Sammis, 2009 - 2010, Rice University; (9) Spencer Boucher, 2009 - present, Rice University; (10) John Buikema, Summer 2009, University of Houston; (11) Yasmine Gharboui, Summer 2009, Rice University; (12) Grace Change, Summer 2010, Rice University; (13) Stephanie Reagan, Summer 2010, Harvard University.
- 2010 - present **Research Supervisor**, Department of Psychology, Virginia Tech. Supervised undergraduate project interns assisting in all aspects of research in the laboratory. (1) Erica Denfield, 2011 - 2012, Virginia Tech; (2) Kathleen McLachlan, 2011, Virginia Tech; (3) Philipp Kotlaba, 2011, Virginia Tech; (4) Joseph Koefer, 2011, Virginia Western Community College; (5) Stephanie Wiltman, 2012-13, Virginia Tech; (6) Zac Robertson, 2012, Virginia Tech; (7) Jim Pecsok, 2013, William and Mary College; (8) Kelly Kadlec, Virginia Tech.
- 2016 **Research Supervisor**, Bridges to Baccalaureate Program (NIH grant #GM107749), Virginia Tech.
Supervised underrepresented minority student seeking to transfer from community college to a four-year institution in pursuit of degree in the biomedical and behavioral sciences. (1) Justin Cox, 2016.

Post-baccalaureate student training

- 2007 - 2010 **Research Supervisor**, Department of Neuroscience, Baylor College of Medicine. Supervised college graduates in preparation for graduate study. (1) LaRaun Lindsey, 2007 - present; (2) Julie Brovko, 2007 - 2009; (3) April Sanders, 2008 - 2009; (4) James Sharp, 2009 - 2010; (5) Jessica Eiseman, 2009 - present; (6) Nina Lauharatanahirun, 2010; (7) Katherine McCurry, 2010; (8) Cristina Tortarolo, 2010; (9) Magdalena Wistuba, 2010; (10) Katherine Gardner, 2010 - 2012.
- 2008 - 2010 **Research Supervisor**, SMART PREP Apprentice (NIH grant #GM069234), Baylor College of Medicine. Supervised underrepresented minority college graduates in

preparation for doctoral study. (1) Charles Carlos, Spring 2009; (2) Alexandra Acevedo-Rodriguez, 2009 - 2010.

2010 - present **Research Supervisor**, Department of Psychology, Virginia Tech. Supervised college graduates in preparation for graduate study. (1) Nina Lauharatanahirun, 2011; (2) Andrew Valdespino, 2011; (3) Katherine McCurry, 2011 - present; (4) Jennifer Lent, 2011 - 2012; (5) Kathleen McLachlan, 2011 - 2012; (6) Brittany Hamilton, 2011 - 2012; (7) Andre Plate, 2012 - 2014; (8) Cari Rosoff, 2013 - 2015; (9) Allison McKinnon, 2013 - present; (10) Riley Palmer, 2014 - 2016; (11) Lauren Reckling, 2015 - 2016; (12) Chris Anzalone, 2015 - 2017; Brennan Delattre, 2016 - present; Doug Chan 2017 - present; Whitney Allen, 2018 - present.

Doctoral/Medical student training

2008 **Lecturer, University of Texas Graduate School of Biomedical Sciences.** "Introduction to social neuroscience." (Course number GS02 0043, "Introduction to fMRI"; Course Coordinator Michael Beauchamp).

2009 – 2012 **Doctoral Dissertation Committee Member**
PhD candidates, Baylor College of Medicine, Dept of Neuroscience: (1) Ting Xiang, advisor Read Montague.

2009 **Lecturer, Baylor College of Medicine.** "Neuroimaging and social neuroscience." (Course number 350-444, "Brain Imaging from Cell to System"; Course Coordinator Peter Saggau).

2011 **Lecturer, Virginia Tech Carilion School of Medicine.** (Research Domain, 1st Year Medical Student Class; Course Coordinator Michael Friedlander).

2011 - present **Graduate Student Advisor**, Department of Psychology, Virginia Tech. Primary advisor for: (1) Nina Lauharatanahirun, Biological Psychology; (2) Katherine McCurry, Clinical; (3) John Wang, Biological Psychology; (4) Shengchuang Feng (Biological Psychology).

2011 - 2014 **Research Supervisor**, Virginia Tech Carilion School of Medicine. Supervised medical students on 3-year research projects. (1) Matthew Kona; (2) Ryan Key.

2012 **Lecturer, Virginia Tech.** "Valuation in social choice: Neural correlates of other-regarding preferences." (ECON 5964, "Experimental Economics"; Course Instructor Sheryl Ball)

2012 - present **Preliminary Exam Committee Member**
PhD candidates, Virginia Tech, Department of Psychology: (1) Julee Farley, advisor Jungmeen Kim; (2) Jared McGinley, advisor Bruce Friedman; (3) Paul Hill, advisor Rachel Diana.

2013 - present **Master's Thesis Committee Member**
MS candidates, Virginia Tech, Department of Psychology: (1) Vanessa Brown, advisor Pearl Chiu; (2) Andrew Valdespino, advisor John Richey; (3) John Wang, advisor Pearl Chiu.

2013 **Dissertation Committee Member**
Julee Farley, advisor Jungmeen Kim; Jared McGinley, advisor Bruce Friedman.

- 2013 **Course Director, Advanced Topics in Decision Neuroscience (Psyc 6954), Virginia Tech**, Teaching rating: 5.3/6.
- 2013 - 2014 **Medical School Research Scholar Evaluation Committee**
Manek Aulakh
Sean Fletcher
James Light
Raeva Malik
Ryan Key
Matt Kona
Amber Post
Robbie Varipapa
- 2014, 2015 **Lecturer, Virginia Tech.** “Neuroeconomic approaches to studying psychiatric illness.” (NEUR 4984, “Neuroeconomics”; Course Instructor Sheryl Ball)
- 2014-2016 **Course Co-Director, Fundamentals in Neuroscience (TBMH 5014), Virginia Tech**, 8-credit intensive course.
- 2014 - present **Graduate Student Rotation Supervisor**, Translational Medicine Biology and Health, Virginia Tech. Rotation advisor for: (1) Libbie Sonnier-Netto, Neuroscience; (2) Zhuoya Cui, Neuroscience; (3) Joelle Martin, Neuroscience; (4) Mark Orloff, Neuroscience.
- 2015- 2016 **Graduate Student Faculty Guide**, Translational Medicine Biology and Health, Virginia Tech. Faculty advisor for: (1) Randy Strauss.
- 2015 - present **Graduate Student Advisor**, Translational Medicine Biology and Health, Virginia Tech. Primary advisor for: (1) Zhuoya Cui, Neuroscience.
- 2017 **Lecturer, Virginia Tech.** (TBMH 5004, “Translational Biology, Medicine, and Health”; Course Instructor Michael Friedlander)
- 2017 - present **Course Director, Fundamentals of Cognitive Brain Science (TBMH 5074), Virginia Tech**, 4-credit intensive course.

Postdoctoral student training

- 11/08 – 04/11 **Research Mentor**, Department of Neuroscience, Baylor College of Medicine.
(1) George Christopoulos, PhD; Previously worked with Wolfram Schultz; University of Cambridge; Currently Assistant Professor at Nanyang Business School, Nanyang Technical University, Singapore.
- 06/11 – present **Research Mentor**, Virginia Tech Carilion Research Institute, Virginia Tech.
(1) Jason Aimone, PhD; Previously worked with Daniel Houser; George Mason University; Currently Assistant Professor in the Department of Economics, Baylor University.
(2) Lusha Zhu, PhD; Previously worked with Ming Hsu; University of Illinois, Urbana-Champaign. Currently Assistant Professor in the Department of Psychology, Peking University.
(3) Dongil Chung, PhD; Previously worked with Jaeseung Jeong; Korea Advanced Institute for Science and Technology. Currently Assistant Professor in the Department of Human Factors Engineering, Ulsan National Institute of Science and Technology (UNIST).

Mid-career development training

01/11 – present **Research Mentor**, Research Service Line, Michael E. DeBakey VA Medical Center.
(1) David Graham, MD; supported under VA RR&D Career Development Award-2.

SYMPOSIA AND INVITED PRESENTATIONS

- King-Casas, B (2004). Neural correlates of reciprocity and reputation in a monetary exchange game. *Neuroeconomics*, Kiawah, SC.
- King-Casas, B (2005). Hyperscanning of trust and reciprocity. *Department of Psychiatry, University of Ulm*, Ulm, Germany.
- King-Casas, B (2005). Getting to know you: Reputation and trust in a two-person economic exchange. *Econometrics Society World Congress*, London, UK.
- King-Casas, B (2005). Functional neuroimaging of social interactions. *American Academy of Child and Adolescent Psychiatry*, Toronto, Canada.
- King-Casas, B (2005). Functional magnetic resonance imaging. *New Methods for Studying Social Behavior, Workshop Sponsored by NSF Political Science Program and Rice University*, Houston, TX.
- King-Casas, B (2005). Cooperation and defection in an iterated trust exchange. *Institute for Empirical Research in Economics, University of Zurich*, Zurich, Switzerland.
- King-Casas, B (2006). Neuroimaging the value of ideas. *DSRC Epidemiology of Ideas Workshop II*, San Francisco, CA.
- King-Casas, B (2006). Neuroimaging: Trust and the brain in BPD. *Recent Scientific and Treatment Advances in Borderline Personality Disorder*, Baylor College of Medicine, Houston, TX.
- King-Casas, B (2006). Imaging disordered cooperation in an iterated social exchange. *NSDM seminar, Department of Psychology, Princeton University*, Princeton, NJ.
- King-Casas, B (2006). Social decision making: Imaging healthy and disordered trust. *European Congress on Visual Perception*, St. Petersburg, Russia.
- King-Casas, B (2006). Betrayal and coaxing in an iterated social exchange. *Rush and Helen Record Forum, Department of Neuroscience, Baylor College of Medicine*, Houston, TX.
- King-Casas, B (2007). Behavioral and neural mechanisms of trust in individuals with borderline personality disorder. *American Psychiatric Association*, San Diego, CA.
- King-Casas, B (2007). Imaging disordered cooperation in an iterated social exchange. *Department of Neuroscience, Baylor College of Medicine*, Houston, TX.
- King-Casas, B (2007). Economic exchange in social pathologies. *Neural Basis of Reward and Punishment Meeting, Instituto Gulbenkian de Ciencia*. Lisbon, Portugal.
- King-Casas, B (2007). Imaging disordered cooperation in a two-person economic exchange. *Gatsby Computational Neuroscience Unit, University College London*, London, UK.
- King-Casas, B (2008). Imaging disordered cooperation in a two-person economic exchange. *Psychiatry Residents Seminar Series, Baylor College of Medicine*, Houston, TX.
- King-Casas, B (2009). Self-interest and the interests of others in interpersonal choice. *Social Neuroscience meets Microsociology and Neuroeconomics, Satellite Symposium, Society for Neuroscience*, Chicago, IL.
- King-Casas, B (2010). Conflict-of-interests and social value learning. *Department of Psychology, University of New Mexico*, Albuquerque, NM.

- King-Casas, B (2010). Value, motivation and learning in social dilemmas. *Brain and Cognitive Sciences Department & McGovern Institute, Massachusetts Institute of Technology, Cambridge, MA.*
- King-Casas, B (2010). Neuroimaging social behavior in borderline personality disorder. *American Psychiatric Association, New Orleans, LA.*
- Christopoulos, G, King-Casas, B (2010). Social orientation dependent learning of social outcomes. *American Psychological Society, Boston, MA.*
- King-Casas, B. (2010). Neural substrates of reciprocity in cooperative and non-cooperative interactions. *Department of Psychology, University of Aarhus, Aarhus, Denmark.*
- King-Casas, B. (2010). Value-learning in social contexts: Neural correlates of choice in social groups. *Interacting Minds Project, University of Aarhus, Aarhus, Denmark.*
- King-Casas, B. (2010). Neural correlates of social dominance in a multi-round dictator game. *Association for Behavioral and Cognitive Therapies, San Francisco, CA.*
- King-Casas, B. (2011). Value-learning in social contexts: Neural correlates of choice in social groups. *Department of Psychology, Stanford University, Palo Alto, CA.*
- King-Casas, B. (2011). Neural correlates of dominance in an iterated resource contest. *Affective Science Meeting, Stanford University, Palo Alto, CA.*
- King-Casas, B. (2011). Value-learning in social contexts: Neural correlates of choice in social groups. *Department of Psychology, University of California, Berkeley, Berkeley, CA.*
- King-Casas, B. (2011). Conflicts-of-interest in social decision-making. *Center for Mind/Brain Sciences, University of Trento, Trento, Italy.*
- King-Casas, B. (2011). Neuroeconomics of social decision-making. *Grand Rounds, Department of Psychiatry, Zucker Hillside Hospital, Glen Oaks, NY.*
- King-Casas, B. (2011), Valuation in social choice: Neural correlates of social value-learning. *ICES Experimental Economics Seminar, George Mason University, Fairfax, VA.*
- King-Casas, B, Christopoulos, G. (2011). Adding the principle of inhomogeneity to social computational neuroscience. *Organization for Human Brain Mapping, Quebec, Canada.*
- King-Casas, B. (2011). Value and risk in cooperative and competitive social dilemmas. *Nanyang Business School, Nanyang Technical University, Singapore.*
- Aimone, JA, Eiseman, J, Graham, D, Frueh, BC, McCurry, K, Chiu, P, King-Casas, B. (2011). PTSD, trust and the brain in combat veterans. *Regional Economic Science Association Conference, Tuscon, AZ.*
- Aimone, JA, Eiseman, J, Graham, D, Frueh, BC, McCurry, K, Chiu, P, King-Casas, B. (2011). Combat veterans and trust: the neuroeconomics of PTSD. *Department of Economics, Virginia Tech, Blacksburg, VA.*
- King-Casas, B. (2012). Neuroimaging social decision-making in psychiatric illness. *Grand Rounds, Department of Psychiatry and Behavioral Sciences, Virginia Tech Carilion School of Medicine, Roanoke, VA.*
- King-Casas, B. (2012). Neurometrics of social functioning in posttraumatic stress disorder. *Department of Psychology, University of Hawaii at Hilo, Hilo, HI.*
- King-Casas, B. (2012). Neuroeconomics of trust in psychiatric illness. *Department of Agricultural Economics, Virginia Tech, Blacksburg, VA.*
- King-Casas, B. (2012). *Neuroimaging interpersonal functioning in PTSD & mTBI. Mental Health Care Line, Salem VA Medical Center, Salem, VA.*
- King-Casas, B. (2012). *Neurobehavioral Assessment of Functioning in PTSD. Mental Health Care Line. Salem VA Medical Center, Salem, VA.*

- King-Casas, B. (2013). Neural computations of cooperation and aggression. *Virginia Tech Carilion Research Institute European–U.S. Workshop on the Neuroscience of Cognition, Computation, and Decisions, Lugano, Switzerland.*
- King-Casas, B. (2013). Neuroeconomic approaches to social dysfunction in PTSD. *Virginia Tech, Dept of Psychology, Clinical Research Fair.*
- King-Casas, B. (2014). Neural computations of social dominance. Keynote speaker at 4th International Conference on Neuroeconomics and Neuromanagement. Zhejiang University, Hangzhou, China.
- King-Casas, B. (2014). Neural computations of social behavior and dysfunction. Virginia Tech Carilion Research Institute.
- Zhu, L, Chiu, P, King-Casas, B (2015). Neural computations underlying actions in social hierarchy. *5th Annual Interdisciplinary Symposium on Decision Neuroscience, Cambridge, MA*
- King-Casas, B (2019). Borderline personality disorder modulates neurocognitive mechanisms and cooperative behavior in Trust Game. Talk, 7th Annual Conference of the North American Society of Personality Disorders, Pittsburgh, PA.

POSTER PRESENTATIONS

- King-Casas, B, Tomlin, D, Anen, C, Camerer, CF, Quartz, SR, Montague, PR (2004). Trust and reputation in a two-person economic exchange. *Society for Neuroscience, San Diego, CA.*
- King-Casas, B, Tomlin, D, Anen, C, Camerer, CF, Quartz, SR, Montague, PR (2004). Trust and reputation in a two-person economic exchange. *NIDA Workshop, Bethesda, MD.*
- King-Casas, B, Li, J, Fischbacher, U, Fehr, E, Montague, PR (2005). Neural correlates of responder competition within an Ultimatum Game. *Neuroeconomics, Kiawah, SC.*
- King-Casas, B, Tomlin, D, Anen, C, Camerer, CF, Quartz, SR, Montague, PR (2005). Getting to know you: Trust and reputation in a two-person economic exchange. *Organization of Human Brain Mapping, Toronto, Canada.*
- King-Casas, B, Li, J, Fischbacher, U, Fehr, E, Montague, PR (2005). Neural correlates of responder competition within an Ultimatum Game. *Organization of Human Brain Mapping, Toronto, Canada.*
- King-Casas, B, Sharp, C, Lomax, L, Bleiberg, E, Fonagy, P, Montague, PR (2006). Neural substrates of impulsivity within a multi-round social exchange. *NIDA Workshop, Society for Neuroscience, Washington, D.C.*
- King-Casas, B, Sharp, C, Lomax, L, Bleiberg, E, Fonagy, P, Montague, PR (2007). Neural correlates of responder competition within an Ultimatum Game. *Society for Neuroscience, Washington, D.C.*
- 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. *Organization for Human Brain Mapping, San Francisco, CA.*
- 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. *Society for Neuroscience, Chicago, IL.*
- Tankersley, D, Christopoulos, G, King-Casas, B, Chiu, P (2010) Punishment sensitivity predicts BOLD response to prediction errors in reward and avoidance learning. *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.

Organization for Human Brain Mapping, Barcelona, Spain.

- Christopoulos G, King-Casas, B (2010) Prediction errors during social resource allocation learning depend on social value orientation. *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. *Society for Neuroscience, San Diego, CA.*
- King-Casas, B, Christopoulos, G (2010). The neurobiology of diffusion of responsibility in social dilemmas. *Society for Neuroscience, San Diego, CA.*
- Acevedo-Rodriguez, A, Christopoulos, G, Sharp, C, Fonagy, P, Montague, R, King-Casas, B (2010) Behavioral and neural correlates of trust in major depressive disorder. *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. *Society for Neuroscience, San Diego, CA.*
- Lindsey, L, McCurry, K, Patel, HR, LaConte, S, De la Garza, R, Newton, T, King-Casas, B, Chiu, PH (2010) Neural substrates of drug use, craving, and executive control in cocaine users. *Society for Neuroscience, San Diego, CA.*
- Christopoulos, G, King-Casas, B (2010) Behavioral and neuronal mechanisms underlying reinforcement learning of social stimuli. *Society for Neuroscience, San Diego, CA.*
- Tankersley, D, McCurry, K, Newton, T, De la Garza, R, Christopoulos, G, King-Casas, B, Chiu, P (2010) Reward and punishment learning associated with differential response to positive and negative prediction errors in stimulant-dependent subjects. *Society for Neuroscience, San Diego, CA.*
- Lindsey, LD, Eiseman, J, Graham, D, Frueh, B, Kosten, T, King-Casas, B, Chiu, PH (2010) Neuroimaging affective phenotypes in depression and post-traumatic stress disorder. *Society for Neuroscience, San Diego, CA.*
- 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. *Organization for Human Brain Mapping, Quebec, Canada.*
- Lauharatanahirun, N, Christopoulos, G, Regan, S, King-Casas, B (2011) Neural correlates of risk and ambiguity in a social decision-making. *Organization for Human Brain Mapping, Quebec, Canada.*
- Gordon, D, McCurry, K, King-Casas, B, Chiu, P (2011) People's addiction to people: Quantifying trust in interpersonal relationships. *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. *McNair Scholars Summer Research Program Conference, Virginia Tech, Blacksburg, VA.*
- Lauharatanahirun, N, Christopoulos, G, Regan, S, King-Casas, B (2011) Behavioral and neural mechanisms of risk in social decision-making. *Society for Neuroscience, Washington, DC.*
- 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. *Society for Neuroscience, Washington, DC.*
- Williams, W, Eiseman, J, McCurry, K, Chiu, P, King-Casas, B (2011) The effectiveness of group psychotherapy in improving trust in veterans with PTSD. *International Society for Traumatic Stress Studies, Baltimore, MD.*
- Aimone, JA, Ball, S, King-Casas, B. (2012) Anxiety, betrayal aversion, and the growth of interpersonal trust. Poster, North-American Economic Science Association Conference, Tucson, AZ.

- 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.
- 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, Human Brain Mapping, Beijing, China.
- 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.
- 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.
- Zhu, L, Chiu, P, King-Casas, B (2012) Neural computations underlying actions in social hierarchy. Poster, Society for Neuroscience, New Orleans, LA.
- Zhu, L, Chiu, P, King-Casas, B (2012). Neural computations underlying actions in social hierarchy. Presentation, D-CIDES Regional Conference, Durham, NC.
- Zhu, L, Chiu, P, King-Casas, B (2012). "Neural mechanisms of social learning in an iterated resource competition. Poster, National Academy of Sciences - Kavli Frontiers of Science Symposium, Irvine, CA.
- Aimone, J, Williams, McCurry, K, Frueh, B, Graham, D, Chiu, P, King-Casas, B (2013) The influence of cognitive processing therapy upon remediation of neural social prediction error signaling in PTSD. Poster, Society for Neuroscience, New Orleans, LA.
- 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, 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, 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.

- 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.
- 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 neurobehavioral 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.
- 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, Hawaii.
- 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, Hawaii.
- 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. 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. 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. Society for Research on Child Development, Philadelphia, PA.

- Zhu, L, Wang, J, Ball, S, Hsu, M, Chiu, P, King-Casas, B (2015). The value of honesty: Neural evidence for lie-averse preferences. 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. 5th Annual Interdisciplinary Symposium on Decision Neuroscience, Cambridge, MA.
- Ball, S, Lauharatanahirun, N, Kim-Spoon, J, Chiu, P, & King-Casas, B. (2016). Is Poor adolescent decision making driven by preferences for risk or ambiguity? some behavioral and neural evidence. Paper presented at the meeting of Southern Economic Association, Washington DC.
- Brieant, A, Kahn, R, Holmes, C, King-Casas, R, & Kim-Spoon, J. (2016). Parent executive function regulates parent impulsivity effects on adolescent executive function. Poster, Society for Research on Adolescence, Baltimore, MD.
- Hochgraf, A, Kahn, R, King-Casas, R, & Kim-Spoon, J. (2016). An investigation of the role of emotional reactivity in the link between parental hostility and distorted body image. Poster, Society for Research on Adolescence, Baltimore, MD.
- Holmes, C, Kahn, R, Deater-Deckard, K, & Kim-Spoon, J. (2016). Family environment effects on developmental trajectories of self-control and adolescent risk taking. Paper presented at the meeting of Society for Research on Adolescence, Baltimore, MD.
- Holmes, C, Reese, M, Valero, M, King-Casas, B, & Kim-Spoon, J. (2016). Adolescent religiousness is associated with sensation seeking and rule breaking behaviors via effortful control. Poster, Society for Research on Adolescence, Baltimore, MD.
- Kahn, R, Barnard, K, King-Casas, B, & Kim-Spoon, J. (2016). Intergenerational similarity in callous-unemotional traits: contributions of hostile parenting and household chaos. Poster, Society for Research on Adolescence, Baltimore, MD.
- Kahn, R, Lauharatanahirun, N, Hochgraf, A, King-Casas, B, & Kim-Spoon, J. (2016). Clarifying the role of pubertal development in the association between reward sensitivity and risk-taking indicators. Poster, Society for Research on Adolescence, Baltimore, MD.
- Kim-Spoon, J, Hochgraf, A, King-Casas, B, & Bell, M. A. (2016). Effortful control vs. executive functioning related to psychopathology in childhood and adolescence. Poster, Society for Research on Adolescence, Baltimore, MD.
- Kim-Spoon, J, Holmes, C, Deater-Deckard, K, Chiu, P, & King-Casas, B. (2016). Cognitive control moderates effects of reward sensitivity on adolescent substance use onset. Poster, Society for Research on Adolescence, Baltimore, MD.
- Peviani, K, Kahn, R, King-Casas, R, & Kim-Spoon, J. (2016). The mediating role of parental inhibitory control in the link between parent and adolescent delay discounting. Poster, Society for Research on Adolescence, Baltimore, MD.
- Feng, S, Brown, V, Wang, J, Cui, Z, King-Casas, B, & Chiu P. (2016). Reward learning in smoking and depression. Poster, Virginia-Nordic Precision Neuroscience Conference. Roanoke, VA.

- 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. Talk presented at Society of Biological Psychiatry, Atlanta, GA.
- Brieant, A, Holmes, C, Lee, J, Hochgraf, A, Omohundro, H, Pereira, K, King-Casas, B, & Kim-Spoon, J. (2017). Positive and negative affect and adolescent adjustment: Moderation effects by prefrontal functioning. Poster, Society for Research in Child Development, Austin, TX.
- Herd, T, Maciejewski, D, Lauharatanahirun, N, Lee, J, Deater-Deckard, K, King-Casas, B, & Kim-Spoon, J. (2017). Cognitive control moderates the association between risk processing and health risk behaviors via perceived stress. Poster, Association for Psychological Science, Boston, MA.
- Lauharatanahirun, L, Ball, S, Aimone, J, Kim-Spoon, J, Chiu, P, & King-Casas, B. Risk attitudes and probability biases modulate neural correlates of variance processing in adolescents. (2017). Poster, Society for Research in Child Development, Austin, TX.
- Peviani, K, Brieant, A, Holmes, C, King-Casas, B, & Kim-Spoon, J. (2017). Intergenerational transmission of rural substance use: contributions of parents, peers, and religiousness. Poster, Society for Research in Child Development, Austin, TX.
- Peviani, K, Kahn, R, Hochgraf, A, Omohundro, H, Pereira, K, Bickel, W, King-Casas, B, & Kim-Spoon, J. (2017). The indirect effect of parent delay discounting on adolescent delay discounting through household chaos. Poster, Society for Research in Child Development, Austin, TX.
- 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, 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.
- Brieant, A, Elder, J, King-Casas, B, Kim-Spoon, J. (2018). Socioeconomic risk for adolescent executive functioning and emerging risk behaviors. Poster, Society for Research on Adolescence, Minneapolis, MN.
- Brieant, A, King-Casas, B, Kim-Spoon, J. (2018). Growth Trajectories of Neurocognitive Self-Regulation and Adolescent Adjustment. Poster, Association for Psychological Science, San Francisco, CA.
- Herd, T, Li, M, Maciejewski, D, Lee, J, Deater-Deckard, K, Righi, M, King-Casas, B, Kim-Spoon, J. (2018). Inhibitory control mediates the association between perceived stress and relationship quality. Poster, Society for Research on Adolescence, Minneapolis, MN.
- Kim-Spoon, J, Lauharatarahirun, N, Peviani, K, Brieant, A, Herd, T, Elder, J, Deater-Deckard, K, Bickel, WK, King-Casas, B. (2018). Longitudinal pathways linking socioeconomic adversity, neural risk processing, delay discounting, and adolescent substance use. Poster, Association for Psychological Science, San Francisco, CA.
- Lauharatanahirun, N, Maciejewski, D, Holmes, C, Deater-Deckard, K, Kim-Spoon, J, King-Casas, B. (2018). Cross-sectional and longitudinal associations of parental monitoring, household chaos, & insular risk processing among adolescents. Poster, Society for Research on Adolescence, Minneapolis, MN.
- Peviani, K, Brieant, A, Holmes, C, Elder, J, Deacon, J, King-Casas, B, Kim-Spoon, J. (2018). Intergenerational transmission of substance use: contributions of parents, peers, and religious socialization. Poster, Society for Research on Adolescence, Minneapolis, MN.
- Peviani, K, King-Casas, B, Kim-Spoon, J. (2018). Longitudinal effects of contextual stress on adolescent delay discounting and substance use. Poster, Society for Research on Adolescence, Minneapolis, MN.
- Wang, JM, Cui, Z, Brown, VM, Solway, A, Zhu, L, Kim-Spoon, J, Chiu, P, King-Casas, B. (2018). Risk learning in adolescents. Poster, Organization for Human Brain Mapping, Singapore.
- 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.

- Orloff MA, Chung D, Delattre B, Lee J, King-Casas B, Chiu PH. (2018) Having agency in acquiring social information increases social influence. Poster, Organization for Human Brain Mapping, Singapore.
- Cui, Z, Zhu, L, Vilares, I, Chiu, PH, King-Casas B. (2018). Behavioral and neural alterations in competitive behavior in Major Depressive Disorder. Poster, Society of Biological Psychiatry, New York, NY.
- Cui Z, Zhu L, Vilares I, Chiu PH, King-Casas B (2019) Behavioral and neural alterations in competitive behavior in major depressive disorder. Poster, Organization for Human Brain Mapping, Rome, Italy.
- 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, 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.
- 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.
- Feng S, Christopoulos G, Chiu P, King-Casas B (2019) The effect of oxytocin on reinforcement learning for self and other. Poster, 25th Annual Meeting of the 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.
- Brieant A, King-Casas B & Kim-Spoon J (2019). Processes linking socioeconomic disadvantage and neural underpinnings of executive function in adolescence. Talk, Society for Research in Child Development, Baltimore, MD.
- Herd T, King-Casas B, & Kim-Spoon J (2019). Developmental changes in emotional regulation during adolescence: Influences of socioeconomic status and family emotional climate. Poster, Society for Research in Child Development, Baltimore, MD.
- Kim-Spoon J, Herd T, Li M, Lauharatanahirun N, Lee J, Deater-Deckard K, King-Casas, B (2019). Neural cognitive control as a protective factor in the reciprocal association between neural risk processing and substance use in adolescence. Talk, International Convention of Psychological Science, Paris, France.
- Li M, El Mallah S, Deater-Deckard K, King-Casas B, Kim-Spoon J. (2019). Peer victimization, risky decision making, and approach/avoidance in mid-adolescence. Talk, Society for Research in Child Development, Baltimore, MD.
- Peviani, K., Lee, J., Bickel, W., King-Casas, B., & Kim-Spoon, J. (2019). *Neurobehavioral correlates of the longitudinal development of delay discounting: influences of inhibitory control and BIS*. Poster presented at the meeting of the Society for Research in Child Development, Baltimore, MD.