





Joshua William Buckholtz

Social Sci Res Scholar

Psychology

 Curriculum Vitae available Online

 Resume available Online

Bio

ACADEMIC APPOINTMENTS

- Social Science Research Scholar, Psychology

Publications

PUBLICATIONS

- **Distinct Developmental Trajectories for Risky and Impulsive Decision-Making in Chimpanzees** *JOURNAL OF EXPERIMENTAL PSYCHOLOGY-GENERAL*
Rosati, A. G., Thompson, M., Atencia, R., Buckholtz, J. W.
2023
- **Characterizing mood disorders in the AFFECT study: a large, longitudinal, and phenotypically rich genetic cohort in the US** *TRANSLATIONAL PSYCHIATRY*
Dalby, M., Vitezic, M., Plath, N., Hammer-Helmich, L., Jiang, Y., Tian, C., Dhamija, D., Wilson, C. H., Hinds, D., Sullivan, P. F., Buckholtz, J. W., Smoller, J. W., 23andMe Res Team
2022; 12 (1): 121
- **Chimpanzee Cooperation Is Fast and Independent From Self-Control** *PSYCHOLOGICAL SCIENCE*
Rosati, A. G., DiNicola, L. M., Buckholtz, J. W.
2018; 29 (11): 1832-1845
- **Disrupted Prefrontal Regulation of Striatal Subjective Value Signals in Psychopathy** *NEURON*
Hosking, J. G., Kastman, E. K., Dorfman, H. M., Samanez-Larkin, G. R., Baskin-Sommers, A., Kiehl, K. A., Newman, J. P., Buckholtz, J. W.
2017; 95 (1): 221+
- **Psychopathic individuals exhibit but do not avoid regret during counterfactual decision making** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Baskin-Sommers, A., Stuppy-Sullivan, A. M., Buckholtz, J. W.
2016; 113 (50): 14438-14443
- **Social norms, self-control, and the value of antisocial behavior** *CURRENT OPINION IN BEHAVIORAL SCIENCES*
Buckholtz, J. W.
2015; 3: 122-129
- **Promises, promises for neuroscience and law** *CURRENT BIOLOGY*
Buckholtz, J. W., Faigman, D. L.
2014; 24 (18): R861-R867
- **Psychopathology and the Human Connectome: Toward a Transdiagnostic Model of Risk For Mental Illness** *NEURON*
Buckholtz, J. W., Meyer-Lindenberg, A.
2012; 74 (6): 990-1004

- **The roots of modern justice: cognitive and neural foundations of social norms and their enforcement** *NATURE NEUROSCIENCE*
Buckholtz, J. W., Marois, R.
2012; 15 (5): 655-661
- **Dopaminergic Network Differences in Human Impulsivity** *SCIENCE*
Buckholtz, J. W., Treadway, M. T., Cowan, R. L., Woodward, N. D., Li, R., Ansari, M., Baldwin, R. M., Schwartzman, A. N., Shelby, E. S., Smith, C. E., Kessler, R. M., Zald, D. H.
2010; 329 (5991): 532
- **Mesolimbic dopamine reward system hypersensitivity in individuals with psychopathic traits** *NATURE NEUROSCIENCE*
Buckholtz, J. W., Treadway, M. T., Cowan, R. L., Woodward, N. D., Benning, S. D., Li, R., Ansari, M., Baldwin, R. M., Schwartzman, A. N., Shelby, E. S., Smith, C. E., Cole, D., Kessler, et al
2010; 13 (4): 419-421
- **Neural mechanisms of genetic risk for impulsivity and violence in humans** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Meyer-Lindenberg, A., Buckholtz, J. W., Kolachana, B., Hariri, A. R., Pezawas, L., Blasi, G., Wabnitz, A., Honea, R., Verchinski, B., Callicott, J. H., Egan, M., Mattay, Weinberger, D. R.
2006; 103 (16): 6269-6274
- **MULTIPLE POLYGENIC SCORES AND INDIVIDUAL GENOMIC LOCI ASSOCIATE WITH SELF-REPORTED ANTIPSYCHOTIC USE, TREATMENT CESSATION, AND TREATMENT RESISTANCE IN AFFECTIVE DISORDERS**
Hellberg, K., Jiang, Y., Forsingdal, A., LaBianca, S., Dhamija, D., Hinds, D. A., Buckholtz, J. W., Smoller, J. W., Dalby, M., Schork, A., Vitezic, M., 23 Me Res Team
ELSEVIER.2023: S75
- **GENETIC ARCHITECTURE OF COMPLEX COGNITIVE PROCESSES AND LINKS TO PSYCHOPATHOLOGY**
Tubbs, J., Mallard, T., Dalby, M., Choi, K., Plath, N., Hammer-Helmich, L., Jiang, Y., Smoller, J., Buckholtz, J., 23andMe Res Team
ELSEVIER.2023: S41-S42
- **EMERGING APPROACHES TO GWAS PHENOTYPING: FROM SYNAPSE TO SYMPTOM**
Buckholtz, J., Mallard, T., Palmer, A.
ELSEVIER.2023: S41
- **Examining tradeoffs between cognitive effort and relief among adults with self-injurious behavior** *JOURNAL OF AFFECTIVE DISORDERS*
Franz, P. J., Fortgang, R. G., Millner, A. J., Jaroszewski, A. C., Wittler, E. M., Alpert, J. E., Buckholtz, J. W., Nock, M. K.
2023; 321: 320-328
- **The association of impulsivity with effects of the ChooseWell 365 workplace nudge intervention on diet and weight** *TRANSLATIONAL BEHAVIORAL MEDICINE*
McCurley, J. L., Buckholtz, J. W., Roberto, C. A., Levy, D. E., Anderson, E. M., Chang, Y., Thorndike, A. N.
2022
- **The origins of cognitive flexibility in chimpanzees** *DEVELOPMENTAL SCIENCE*
Cantwell, A., Buckholtz, J. W., Atencia, R., Rosati, A. G.
2022; 25 (5): e13266
- **Don't Ever Leave Me, You Disgusting Monster: Computational Insights Into Moral Inference Updating in Borderline Personality Disorder** *BIOLOGICAL PSYCHIATRY-COGNITIVE NEUROSCIENCE AND NEUROIMAGING*
Buckholtz, J. W.
2020; 5 (12): 1075-1076
- **Are suicide attempters more impulsive than suicide ideators?** *GENERAL HOSPITAL PSYCHIATRY*
Millner, A. J., Lee, M. D., Hoyt, K., Buckholtz, J. W., Auerbach, R. P., Nock, M. K.
2020; 63: 103-110
- **Aberrant Cost-Benefit Integration During Effort-Based Decision Making Relates to Severity of Substance Use Disorders** *CLINICAL PSYCHOLOGICAL SCIENCE*
Stuppy-Sullivan, A. M., Buckholtz, J. W., Baskin-Sommers, A.
2020; 8 (1): 155-168

- **The impact of chronic stress during adolescence on the development of aggressive behavior: A systematic review on the role of the dopaminergic system in rodents** *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS*
Tielbeek, J. J., Al-Itejaw, Z., Zijlmans, J., Polderman, T. C., Buckholtz, J. W., Popma, A.
2018; 91: 187-197
- **Predicting Violent Behavior: What Can Neuroscience Add?** *TRENDS IN COGNITIVE SCIENCES*
Poldrack, R. A., Monahan, J., Imrey, P. B., Reyna, V., Raichle, M. E., Faigman, D., Buckholtz, J. W.
2018; 22 (2): 111–23
- **Blunted Ambiguity Aversion During Cost-Benefit Decisions in Antisocial Individuals** *SCIENTIFIC REPORTS*
Buckholtz, J. W., Karmarkar, U., Ye, S., Brennan, G. M., Baskin-Sommers, A.
2017; 7: 2030
- **Selective Mapping of Psychopathy and Externalizing to Dissociable Circuits for Inhibitory Self-Control** *CLINICAL PSYCHOLOGICAL SCIENCE*
Rodman, A. M., Kastman, E. K., Dorfman, H. M., Baskin-Sommers, A. R., Kiehl, K. A., Newman, J. P., Buckholtz, J. W.
2016; 4 (3): 559-571
- **From Blame to Punishment: Disrupting Prefrontal Cortex Activity Reveals Norm Enforcement Mechanisms** *NEURON*
Buckholtz, J. W., Martin, J. W., Treadway, M. T., Jan, K., Zald, D. H., Jones, O., Marois, R.
2015; 87 (6): 1369-1380
- **Social Behavior: A Penny for Your Shocks** *CURRENT BIOLOGY*
Dorfman, H. M., Buckholtz, J. W.
2015; 25 (14): R600-R601
- **Neurogenetics of antisocial aggression** *ROUTLEDGE INTERNATIONAL HANDBOOK OF BIOSOCIAL CRIMINOLOGY*
Dorfman, H. M., Buckholtz, J. W., DeLisi, M., Vaughn, M. G.
2015: 115-127
- **Corticolimbic gating of emotion-driven punishment** *NATURE NEUROSCIENCE*
Treadway, M. T., Buckholtz, J. W., Martin, J. W., Jan, K., Asplund, C. L., Ginther, M. R., Jones, O. D., Marois, R.
2014; 17 (9): 1270-1275
- **Neurobiological mechanisms for impulsive-aggression: the role of MAOA.** *Current topics in behavioral neurosciences*
Dorfman, H. M., Meyer-Lindenberg, A., Buckholtz, J. W.
2014; 17: 297-313
- **A Thalamocortico-striatal Dopamine Network for Psychostimulant-Enhanced Human Cognitive Flexibility** *BIOLOGICAL PSYCHIATRY*
Samanez-Larkin, G. R., Buckholtz, J. W., Cowan, R. L., Woodward, N. D., Li, R., Ansari, M., Arrington, C. M., Baldwin, R. M., Smith, C. E., Treadway, M. T., Kessler, R. M., Zald, D. H.
2013; 74 (2): 99-105
- **Perceived stress predicts altered reward and loss feedback processing in medial prefrontal cortex** *FRONTIERS IN HUMAN NEUROSCIENCE*
Treadway, M. T., Buckholtz, J. W., Zald, D. H.
2013; 7: 180
- **Exaggerated attention blink response in prisoners with externalizing** *JOURNAL OF RESEARCH IN PERSONALITY*
Baskin-Sommers, A., Wolf, R., Buckholtz, J., Warren, C., Newman, J.
2012; 46 (6): 688-693
- **Dopaminergic Mechanisms of Individual Differences in Human Effort-Based Decision-Making** *JOURNAL OF NEUROSCIENCE*
Treadway, M. T., Buckholtz, J. W., Cowan, R. L., Woodward, N. D., Li, R., Ansari, M., Baldwin, R. M., Schwartzman, A. N., Kessler, R. M., Zald, D. H.
2012; 32 (18): 6170-6176
- **On the Use and Misuse of Genomic and Neuroimaging Science in Forensic Psychiatry: Current Roles and Future Directions** *CHILD AND ADOLESCENT PSYCHIATRIC CLINICS OF NORTH AMERICA*
Treadway, M. T., Buckholtz, J. W.
2011; 20 (3): 533+
- **A unique role for the human amygdala in novelty detection** *NEUROIMAGE*

-
- Blackford, J., Buckholtz, J. W., Avery, S. N., Zald, D. H.
2010; 50 (3): 1188-1193
- **Worth the 'EEfRT'? The Effort Expenditure for Rewards Task as an Objective Measure of Motivation and Anhedonia** *PLOS ONE*
Treadway, M. T., Buckholtz, J. W., Schwartzman, A. N., Lambert, W. E., Zald, D. H.
2009; 4 (8)
 - **The Neural Correlates of Third-Party Punishment** *NEURON*
Buckholtz, J. W., Asplund, C. L., Dux, P. E., Zald, D. H., Gore, J. C., Jones, O. D., Marois, R.
2008; 60 (5): 930-940
 - **COMT genetic variation affects fear processing: Psychophysiological evidence** *BEHAVIORAL NEUROSCIENCE*
Montag, C., Hartmann, P., Buckholtz, J. W., Merz, M., Burk, C., Hennig, J., Reuter, M.
2008; 122 (4): 901-909
 - **MAOA and the neurogenetic architecture of human aggression** *TRENDS IN NEUROSCIENCES*
Buckholtz, J. W., Meyer-Lindenberg, A.
2008; 31 (3): 120-129
 - **Genetic variation in MAOA modulates ventromedial prefrontal circuitry mediating individual differences in human personality** *MOLECULAR PSYCHIATRY*
Buckholtz, J. W., Callicott, J. H., Kolachana, B., Hariri, A. R., Goldberg, T. E., Genderson, M., Egan, M. F., Mattay, V. S., Weinberger, D. R., Meyer-Lindenberg, A.
2008; 13 (3): 313-324
 - **FMRI evidence for functional epistasis between COMT and RGS4** *MOLECULAR PSYCHIATRY*
Buckholtz, J. W., Sust, S., Tan, H. Y., Mattay, V. S., Straub, R. E., Meyer-Lindenberg, A., Weinberger, D. R., Callicott, J. H.
2007; 12 (10): 893-895
 - **Epistasis between catechol-O-methyltransferase and type II metabotropic glutamate receptor 3 genes on working memory brain function.** *Proceedings of the National Academy of Sciences of the United States of America*
Tan, H. Y., Chen, Q., Sust, S., Buckholtz, J. W., Meyers, J. D., Egan, M. F., Mattay, V. S., Meyer-Lindenberg, A., Weinberger, D. R., Callicott, J. H.
2007; 104 (30): 12536-41
 - **Allelic variation in RGS4 impacts functional and structural connectivity in the human brain.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Buckholtz, J. W., Meyer-Lindenberg, A., Honea, R. A., Straub, R. E., Pezawas, L., Egan, M. F., Vakkalanka, R., Kolachana, B., Verchinski, B. A., Sust, S., Mattay, V. S., Weinberger, D. R., Callicott, et al
2007; 27 (7): 1584-93
 - **Dysfunctional prefrontal regional specialization and compensation in schizophrenia.** *The American journal of psychiatry*
Tan, H. Y., Sust, S., Buckholtz, J. W., Mattay, V. S., Meyer-Lindenberg, A., Egan, M. F., Weinberger, D. R., Callicott, J. H.
2006; 163 (11): 1969-77
 - **Impact of complex genetic variation in COMT on human brain function** *MOLECULAR PSYCHIATRY*
Meyer-Lindenberg, A., Nichols, T., Callicott, J. H., Ding, J., Kolachana, B., Buckholtz, J., Mattay, V. S., Egan, M., Weinberger, D. R.
2006; 11 (9): 867-877
 - **Chronic administration of serotonergic antidepressants attenuates the subjective effects of LSD in humans** *NEUROPSYCHOPHARMACOLOGY*
Bonson, K. R., Buckholtz, J. W., Murphy, D. L.
1996; 14 (6): 425-436