

Edward H. Patzelt

Contact

Department of Psychology
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Education

- 2013 – Present **Harvard University**
Clinical Science Doctoral Student
Mentors: Samuel J. Gershman, PhD; Matthew K. Nock PhD
- 2013 – 2015 **Harvard University**
Artium Magister, Psychology
- 2009 – 2013 **University of Minnesota**
Research Assistant
Mentor: Angus W. MacDonald III, PhD
- 2007 **University of Minnesota**
Bachelor of Arts, Psychology

Pending Submissions

Angus W. MacDonald III, **Edward Patzelt**, Zeb Kurth-Nelson, Deanna M. Barch, Cameron C. Carter, James M. Gold, J. Daniel Ragland, Steven M. Silverstein. Computational Psychiatry v. the Generalized Deficit: Probabilistic Reversal Learning Impairments in Psychosis are Not Mechanistically Specific. Submitted to the annual meeting of the American College of Neuropsychopharmacology.

Publications

- Patzelt E.H.**, Kurth-Nelson Z., Lim K.O. & MacDonald A.W. III., (2014). Excessive state switching underlies reversal learning deficits in cocaine users. *Drug and Alcohol Dependence*, pp. 211–217.
- Wisner K.M, **Patzelt E.H.**, Lim K.O., MacDonald A.W. III., (2013). An intrinsic connectivity network approach to insula-derived dysfunctions among cocaine users. *American Journal of Drug and Alcohol Abuse*, 2990, pp.403–413.

Poster Presentations

- Patzelt, E.H.**, Millner, A., Kastman, E., Dorfman, H., Baskin-Sommers, A., Kiehl, K., Newman, J.P., Buckholtz, J.W. (2015) Impulsive Choice Behavior Predicts Exaggerated Reinforcement Learning Signals within Corticostriatal Circuitry. Presented at the 2015 Meeting of the Social and Affective Neuroscience Society, Boston, MA
- Patzelt, E.H.**, Millner, A., Kastman, E., Dorfman, H., Baskin-Sommers, A., Kiehl, K., Newman, J.P., Buckholtz, J.W. (2014) Corticolimbic Circuit Dysfunction Drives Reinforcement Learning Deficits in Incarcerated Antisocial Offenders. Presented at the 2014 Annual Meeting of the Cognitive Neuroscience Society, Boston, MA
- Wisner, K., **Patzelt, E.H.**, Lim, K.O., MacDonald, A.W., III. (2013) Expanding the boundaries of

addiction neuroscience: Impact of dimensionality on prediction. Presented at the 2013 Annual Meeting of the Organization of Human Brain Mapping, Seattle, WA.

Kang, S.S., Goghari, V., Jones, J., **Patzelt, E.H.**, MacDonald, A.W., III., Sponheim, S. (2013). Interregional cortical neural synchrony underlying context processing. Presented at the 2013 Annual Meeting of the Organization of Human Brain Mapping, Seattle, WA.

Patzelt, E.H., Wisner, K., Kurth-Nelson, Z., Lim, K.O., Miner, M., MacDonald, A.W., III. (2013). State transition associated with intrinsic connectivity networks: implications for sexual compulsivity. Presented at the 20th annual meeting for the Cognitive Neuroscience Society, San Francisco, CA.

Patzelt, E.H., Kurth-Nelson, Z., Raymond, N., Specker, S., Lim, K.O., MacDonald, A.W., III. (2012). State switching in psychopathology using a hidden Markov model. Presented at the 2012 Cognitive Neuroscience Society Conference, Chicago, United States.

Patzelt, E.H., Lim, K.O., Raymond, N., Specker, S., MacDonald, A.W., III (2011). The ability to adapt to shifting reward contingencies is differentially impaired in cocaine addiction and binge eating disorder. Presented at the 2011 Annual Meeting of the Cognitive Neuroscience Society. San Francisco, United States.

O'Sullivan, M.B., Overgaard, S.M., **Patzelt, E.H.**, Bell, C.J., Mueller, B.A., Hemmy, L., Schultz, S.C., Lim, K.O. (2010). Alterations in White Matter Integrity Correlated with Cognitive Dysfunction in First Episode Schizophrenia. Presented (O'Sullivan, M.B.) at the 2010 Annual Meeting of the International Early Psychosis Association (IEPA) & presented at the 2011 meeting of the International Congress on Schizophrenia Research (ICOSR). Amsterdam, The Netherlands (IEPA) & Denver, United States (ICOSR).

Patzelt, E.H., Johnson, M.K., MacDonald, A.W., III (2010). Decisions to trust elicit medial prefrontal activity in persecuted and non-persecuted schizophrenia. Presented at the 2010 Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain.

Conference Presentations

Miner, M., Swinburne-Romine, R., MacDonald, A.W., III, Janssen, E., **Patzelt, E.H.**, Raymond, N., Coleman, E., (2013) Toward a Conceptualization of Hypersexuality: Preliminary Cognitive and Psychophysiological Data. Symposium at the 2013 Annual Meeting of the Society for the Scientific Study of Sexuality. San Diego, CA. November 2013.

Macdonald, A.W., III, Wisner, K.M., Poppe, A., **Patzelt, E.H.**, (2012) Comparison of task- and rest-related intrinsic connectivity networks for the study of individual differences in cognitive control. Slide session at the Annual Meeting of the Cognitive Neuroscience Society, Chicago, IL. 31 March 2012

MacDonald, A.W., III, Wisner, K.M., Camchong, J., **Patzelt, E.H.**, Lim, K.O., (2012) Functional connectivity of reward systems in cocaine dependence & adolescents. Invited presentation at the Annual Meeting of the American Psychiatric Association, Philadelphia, PA. 7 May 2012.

MacDonald, A.W., III, Wisner, K.M., **Patzelt, E.H.**, Camchong, J., Specker, S., & Lim, K.O., (2012) Deleterious resting-state connectivity in stimulant dependence. Presentation at the 52nd Annual Meeting of the Society for Psychophysiological Research, New Orleans, LA. October 2012

Talks

- 2012 *University of Minnesota*
 "Excessive state-switching underlies reversal learning deficits in cocaine users: implications for sexual compulsivity." Invited talk at the Program in Human Sexuality faculty research presentation series.
- 2012 *University of Minnesota*
 "Bayesian Inference in reversal-learning." Talk at the Laboratory for Neuropsychiatric Imaging (Director: Kelvin O. Lim).

Grants / Fellowships

- 2016 **Advanced multimodal neuroimaging training program (AMNTP)**
Trainee
 Enhancing sequential decision-making with tDCS
 Amount: \$39,670
- 2016 **Dr. Mortimer and Theresa Sackler Foundation**
Sackler scholar in psychobiology
 Upregulating prefrontal function to attenuate impulsive decision-making
 Amount: \$8,500

Travel Awards

- 2015 Stimson Fund Travel Grant, Harvard University (\$500)
- 2013 Stimson Fund Travel Grant, Harvard University (\$1000)

Professional Society Memberships

Organization for Human Brain Mapping
Cognitive Neuroscience Society
Society for Neuroscience

Ad Hoc Reviewer

- 2013 *Journal of Abnormal Psychology, Biological Psychiatry*

Clinical Practica

- 2015-2017 Practicum Student
 Gunderson Residence at Mclean Hospital
 Supervisors: Lois Choi-Kain MD MEd; Brandon Unruh MD, Karen Jacob PhD.
- 2014-2015 Behavioral Coach
 McLean Hospital, OCD Institute
 Supervisors: Jason Elias PhD; Jason Kropf PhD; Carol Hevia PsyD;
 Marcia Rabinowits PsyD
- 2014 Observational Practicum Student
 Cambridge Hospital, Cambridge Health Alliance
 Supervisors: Adam Conklin, PhD; Kimberlyn Leary, PhD; Diya Kallivayalil, PhD