

Edward Harold Patzelt

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EDUCATION

- Harvard University Graduate School of Arts and Sciences**, Cambridge, MA 2016 - Present
Candidate for Ph.D. in Psychology (Clinical Science Track)
Computational Cognitive Neuroscience Lab
Advisors: Samuel J. Gershman, Ph.D. and Matthew K. Nock Ph.D.
- Harvard University Graduate School of Arts and Sciences**, Cambridge, MA 2013 - 2016
M.A. in Psychology (Clinical Science Track)
Systems Neuroscience of Psychopathology Lab
Advisor: Joshua W. Buckholtz, Ph.D.
- University of Minnesota**, Minneapolis, MN 2009 - 2013
Research Assistant
Translational Research in Cognitive and Affective Mechanisms Lab
Advisor: Angus W. MacDonald III, Ph.D.
- University of Minnesota**, Minneapolis, MN 2007
B.A. in Psychology

MANUSCRIPTS UNDER REVIEW

- Patzelt E.H.**, Kool, W., Millner, A.J, Gershman, S.J. Model-based control across the psychopathology spectrum: impaired, but responsive to incentives.
- Patzelt E.H.**, Hartley, C., Gershman S.J. Computational phenotyping: using models to understand personality, development, and mental illness.

MANUSCRIPTS IN PREPARATION

- Patzelt E.H.**, Kool, W., Millner, A.J, Gershman, S.J. Maladaptive effort allocation associated with diverse psychopathological symptoms.
- MacDonald, A.W., III, **Patzelt E.H.**, Kurth-Nelson Z., Barch, D.M., Carter, C.S., Gold, J.M., Ragland, J.D., Silverstein, S.M., Strauss, M.E. Shared reversal learning impairments in schizophrenia and bipolar disorder reflect a failure to exploit rewards in a computational model.
- Dorfman H.M., **Patzelt E.H.**, Prater-Fahey M., Buckholtz J.W. The cost of aggression: predicting behavior using a value-based discounting model.

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

MacDonald, A.W., III, **Patzelt E.H.**, Kurth-Nelson Z., Barch, D.M., Carter, C.S., Gold, J.M., Ragland, J.D., Silverstein, S.M. (2016). *Computational psychiatry v. the generalized deficit: probabilistic reversal learning impairments in psychosis are not mechanistically specific*. American College of Neuropsychopharmacology annual conference.

Dorfman H.M., **Patzelt E.H.**, Prater-Fahey M., Buckholtz J.W. (2016). *The cost of aggression: predicting behavior using a value-based discounting model*. Society for Neuroscience annual conference.

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*. Social and Affective Neuroscience Society annual conference.

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*. Cognitive Neuroscience Society annual conference.

Wisner, K., **Patzelt, E.H.**, Lim, K.O., MacDonald, A.W., III. (2013). *Expanding the boundaries of addiction neuroscience: Impact of dimensionality on prediction*. Organization for Human Brain Mapping annual conference.

Kang, S.S., Goghari, V., Jones, J., **Patzelt, E.H.**, MacDonald, A.W., III., Sponheim, S. (2013). *Interregional cortical neural synchrony underlying context processing*. Organization for Human Brain Mapping annual conference.

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*. Cognitive Neuroscience Society annual conference.

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*. Cognitive Neuroscience Society annual conference.

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*. Cognitive Neuroscience Society annual conference.

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*. International Early Psychosis Association annual conference.

Patzelt, E.H., Johnson, M.K., MacDonald, A.W., III. (2010). *Decisions to trust elicit medial prefrontal activity in persecuted and non-persecuted schizophrenia*. Organization for Human Brain Mapping annual conference.

CONFERENCE PRESENTATIONS

- Miner, M.H., MacDonald, III, A., & **Patzelt, E.H.** (2017). Behavioral indications of cognitive disruptions in hypersexuality. *Journal of Behavioral Addictions, 6 (Suppl. 1)*, 35.
- MacDonald, A.W., III, **Patzelt E.H.**, Kurth-Nelson Z., Barch, D.M., Carter, C.S., Gold, J.M., Ragland, J.D., Silverstein, S.M. (2017). *Exploration not perseveration: computational modeling of probabilistic reversal learning impairments in psychosis*. International Congress on Schizophrenia Research annual conference, 2017.
- 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 Society for the Scientific Study of Sexuality annual meeting, 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 Cognitive Neuroscience Society annual conference.
- 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 American Psychiatric Association annual meeting.
- 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 Society for Psychophysiological Research annual meeting.

TALKS

- Harvard University - *Exaggerated reward learning signals in impulsive discounters*. 2015
- University of Minnesota - *Excessive state-switching underlies reversal learning deficits in cocaine users: implications for sexual compulsivity*. 2012
- University of Minnesota - *Bayesian inference in reversal-learning*. 2012

GRANTS AND FELLOWSHIPS

- Barbara Ditmers Fund Research Grant Award, Harvard University, \$3,500 2017
- Dissertation Completion Fellowship, Harvard University, \$28,020 2017
- Restricted Funds Small Grant Award, Harvard University, \$2,000 2017
- Barbara Ditmers Fund Research Grant Award, Harvard University, \$3,500 2017
- NIH Blueprint for Neuroscience Research (T90DA022759/R90DA023427), \$39,670 2016
- Sackler Scholar Programme in Psychobiology, Harvard University, \$8,500 2016
- Stimson Fund Travel Award, Harvard University, \$500 2015
- Graduate Research Fellowship, Harvard University, \$31,000 2014
- Stimson Fund, Harvard University, \$1,000 2013
- Graduate Research Fellowship, Harvard University, \$31,000 2013

CLINICAL EXPERIENCE

- Gunderson Residence for Borderline Personality Disorder** September 2015 – August 2017
 McLean Hospital, Cambridge, MA
 Supervisors: Lois Choi-Kain, M.D. M.Ed., Karen Jacob, Ph.D., Brandon

Unruh, M.D.

- Residential setting for patients presenting with borderline personality disorder
- Conducted individual sessions and group clinical work with a range of evidence-based treatments
 - Dialectical Behavior Therapy
 - Cognitive Behavioral Therapy
 - Mentalization Based Treatment
- Co-led weekly DBT groups in all modules of DBT skills training manual. (e.g. Interpersonal Effectiveness, Distress Tolerance, Emotion Regulation).
- Co-led weekly interpersonal process group
- Co-led weekly psychoeducation group
- Received individual and group supervision.
- Attended weekly grand rounds.
- Attended weekly consultation team meeting.
- Videotaped all individual sessions and received feedback in supervision.
- Conducted SCID 5 assessments.

Obsessive Compulsive Disorders Institute

September 2014 – July 2015

McLean Hospital, Belmont, MA

Supervisors: Jason Elias, Ph.D., Jason Krompinger, Ph.D.

- Residential setting for patients presenting with chronic treatment-resistant obsessive compulsive disorder.
- Administered exposure and response prevention (ERP) intervention with over 120 patients.
- Assessed patients' subjective units of distress throughout intervention process.
- Completed post-intervention assessments.
- Received didactic training on mindfulness groups.
- Individual and group weekly supervision.

Cambridge Health Alliance, Cambridge, MA.

January 2014 – June 2014

Supervisor: Adam Conklin, Ph.D.

- In-patient short term psychiatric unit.
- Observed intake interviews and assessments with patients presenting a range of psychiatric challenges.
- Received weekly individual supervision.
- Received didactic training on intake and diagnosis.

CLINICAL TRAINING WORKSHOPS

Dialectical Behavior Therapy for Post-Traumatic Stress Disorder

November 2016

led by Dr. Martin Bohus, Watertown, MA.

- Trained on prolonged exposure approach to treating PTSD in patients with suicidal and self-injuring behavior.
- Trained on staged process of developing skills, identifying core trauma, and using prolonged exposure protocol

Mentalization-Based Treatment: Basic Training

February 2016

led by Drs. Peter Fonagy and Anthony Bateman, Watertown, MA.

- Trained on process of establishing mentalizing while maintaining therapeutic stance of curiosity
- Trained on the goal of helping the patient to maintain an optimal level of affect to improve relationships and behavioral choices

Transference Focused Psychotherapy: Foundational Training
led by Drs. Frank Yeomans, Otto Kernberg, and Richard Hersh, Boston, MA.

September 2016

CLINICAL ASSESSMENT TRAINING

Psychological Testing Seminar, Harvard University, Cambridge, MA
Instructor: Christine Hooker, Ph.D.

Spring 2015

- Completed semester-long training seminar in administration, scoring, and interpretation of neuropsychological tests for adults and children
- MMPI, WAIS-IV, WMS-IV, DKEFS, TAT, grooved peg board, WCST.

SCID-5 Diagnostic Training Seminar, Harvard University, Cambridge, MA
Instructor: Jill Hooley, Ph.D.

Spring 2015

- Completed four-day intensive training seminar on administration of the SCID-5/SCID-II.
- Conducted SCID-5 on theoretical case conceptualizations and received feedback and training on assessment

Translational Research in Cognitive Affective Mechanism Laboratory,
Minneapolis, MN
Supervisor: Dori Henderson, Ph.D.

September 2012 – July 2013

- Received didactic training in the administration of the Brief Psychiatric Rating Scale
- Conducted Brief Psychiatric Rating Scale with patients presenting with schizophrenia and schizoaffective disorder

RESEARCH LAB EXPERIENCE

Graduate Student
Computational Cognitive Neuroscience Lab
Harvard University, Cambridge
Director: Samuel J. Gershman, Ph.D.

2016 - current

Lab focus: using computational methods to understand cognitive processes and their disruption in psychopathology

Graduate Student
Nock Laboratory (research focus in suicidal and self-harming behaviors)
Harvard University, Cambridge
Director: Matthew K. Nock, Ph.D.

2016 - current

Lab focus: the study of suicidal and self-harming behaviors

Graduate Student
Systems Neuroscience of Psychopathology Lab
Harvard University, Cambridge
Director: Joshua W. Buckholz, Ph.D.

2013 - 2016

Lab focus: using neuroimaging to study the disruption of brain circuits in

psychopathology

Research Assistant 2011 - 2013

Program in Human Sexuality

University of Minnesota, Minneapolis

Director: Michael H. Miner, Ph.D.

Lab focus: examining the cognitive and physiological processes that underlie hypersexual behavior

Research Assistant 2009 - 2013

Translational Research in Cognitive and Affective Mechanisms Lab

University of Minnesota, Minneapolis

Director: Angus W. MacDonald III, Ph.D.

Lab focus: using neuroimaging to study cognitive and affective mechanisms underlying psychosis

Research Assistant 2009 - 2013

Center for Studies in Impulsivity and Addiction

University of Minnesota, Minneapolis

Director: Kelvin O. Lim, M.D.

Lab focus: using computational and neuroimaging methods to study disorders of impulsivity and compulsivity (e.g. cocaine addiction)

TEACHING EXPERIENCE

Teaching Fellow for PSY15: Social Psychology, Harvard University

Professor Fiery Cushman Ph.D.

- Led two weekly discussion sections per week.
- Mentored undergraduates on conception and execution of original research study
- Graded exams and homework assignments.

Teaching Fellow for PSY18: Abnormal Psychology, Harvard University

Professor Joshua Buckholtz Ph.D.

- Led two weekly discussion sections per week.
- Mentored undergraduates on term papers examining current issues in the study of psychopathology
- Graded exams and homework assignments.

MENTORING EXPERIENCE

Mahalia Prater-Fahey 2015 - 2016

Lab Manager, Harvard University

Jackson Whang 2015 - 2016

Student and Undergraduate Research Assistant, Harvard University

Joseph Lowinske 2011 - 2013

Research Assistant, University of Minnesota

Anna Schnurrer 2011 - 2013

Research Assistant, University of Minnesota

AD HOC REVIEWER

Journal of Abnormal Psychology
Biological Psychiatry