

KAREN ELIZABETH MUÑOZ

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EDUCATION

2013 - 2014

AMERICAN INSTITUTE FOR COGNITIVE THERAPY
Postdoctoral Fellowship

NEW YORK, NY

2012 - 2013

NEW YORK-PRESBYTERIAN HOSPITAL/WEILL CORNELL MEDICAL COLLEGE
Predoctoral Clinical Internship

NEW YORK, NY

ROTATIONS:

- COGNITIVE THERAPY CLINIC
- WEILL-CORNELL PSYCHIATRIC EMERGENCY ROOM
- PSYCHOLOGICAL TESTING SERVICES
- ADOLESCENT INPATIENT UNIT
- CHILD COGNITIVE BEHAVIORAL THERAPY OUTPATIENT PROGRAM

2005 - 2013

UNIVERSITY OF PITTSBURGH

PITTSBURGH, PA

Joint Clinical/Developmental Ph.D. program, Concentration in Cognitive Neuroscience

- DOCTOR OF PHILOSOPHY IN CLINICAL/DEVELOPMENTAL PSYCHOLOGY (2013)
Dissertation title: *Neurodevelopmental correlates and predictors of alcohol use and abuse in early adulthood*. Advisors: Peter J. Gianaros, Ph.D. & Erika E. Forbes, Ph.D.
- SPECIALTY EXAMINATION PAPER (2011): *Do negative emotion circuits of the brain link internalizing symptomatology and alcohol use in adolescence?* Advisor: Peter J. Gianaros, Ph.D.
- MASTER OF SCIENCE (2009): *Amygdala and Ventral Striatal reactivity in adolescents at high-risk for depression*. Advisor: Ahmad R. Hariri, Ph.D.

2005 - 2013

UNIVERSITY OF PITTSBURGH AND CARNEGIE MELLON UNIVERSITY

PITTSBURGH, PA

Center for the Neural Basis of Cognition

- CERTIFICATE IN COGNITIVE NEUROSCIENCE (2013) Advisors: Ahmad R. Hariri, Ph.D. & Peter J. Gianaros, Ph.D.

1997- 2001

HAVERFORD COLLEGE

HAVERFORD, PA

B.A., Psychology with Concentration in Neural and Behavioral Sciences

- THESIS: *The relationship between coping styles and perceptual asymmetry*. Advisor: Rebecca J. Compton, Ph.D.

HONORS AND AWARDS

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|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2005-2006, 2010-2011 2010 | K. Leroy Irvis Fellowship, University of Pittsburgh Arts and Sciences Diversity Summer Research Fellowship, University of Pittsburgh |
| 2009, 2010 2008-2009 | Bassell Student Publication Award, University of Pittsburgh Multi-modal Neuroimaging Training Program Fellowship, University of Pittsburgh |
| 2007, 2009 | Health Emotions Research Institute Symposium Scholar, University of Wisconsin |
| 2005 | John Merck Fund Summer Institute on the Biology of Developmental Disabilities Fellow, Sackler Institute |
| 2001-2005 | Intramural Research Training Award, National Institute of Mental Health |

CLINICAL EXPERIENCE

CLINICAL PSYCHOLOGIST/DIRECTOR OF THE SLEEP PROGRAM **FEBRUARY 2016– PRESENT**
Cognitive Behavior Associates

Group private practice offering empirically-supported treatments for adults, adolescents, children, families, and couples founded by Joel Becker, Ph.D.

Activities include

- Conducting individual weekly therapy with adults, children, families, and couples.
- Specialization in CBT for insomnia and anxiety.

PSYCHOLOGICAL ASSISTANT **SEPTEMBER 2014 – JANUARY 2015**
Cognitive Behavior Associates

Supervisor: Jayson Mystkowski, Ph.D.

Group private practice offering empirically-supported treatments for adults, adolescents, children, families, and couples founded by Joel Becker, Ph.D.

Activities included

- Individual supervision in cognitive-behavioral therapy (CBT)
- Conducting individual weekly therapy with adults, children, families, and couples.

POSTDOCTORAL FELLOW **SEPTEMBER 2013 – AUGUST 2014**
American Institute for Cognitive Therapy

Supervisors: Nikki Rubin, Psy.D., Mia Sage, Ph.D., Victoria Taylor, Ph.D., Dennis Tirch, Ph.D., & Robert Leahy, Ph.D.

Group private practice offering empirically-supported treatments for adults, adolescents, children, families, and couples founded by Robert Leahy, Ph.D.

Activities included

- Individual supervision in cognitive-behavioral therapy (CBT) and dialectical-behavior therapy (DBT).
- Group supervision in compassion-focused therapy (CFT).
- Conducting individual weekly therapy with adults and children with a range of Axis I and Axis II disorders.
- Co-leading DBT skills group for adults with emotion-regulation difficulties.

CLINICAL PSYCHOLOGY INTERN

JULY 2012 – JUNE 2013

Cognitive Therapy Clinic

Weill Cornell Medical College

Supervisors: Susan Evans, Ph.D., Marika Kyrimis, Ph.D., Alexander Levi, Ph.D., Jamie Schumpf, Anna Edwards, Ph.D., & Diana Feldman, M.D.

Outpatient clinic offering cognitive behavioral therapy and psychodynamic psychotherapy for adults directed by Susan Evans, Ph.D.

Activities included

- Individual supervision in (CBT) and psychodynamic psychotherapy.
- Conducting individual weekly or twice weekly therapy with adults with a range of Axis I disorders.
- Conducting weekly evaluations for adults to determine diagnoses, treatment plan, and suitability for CBT.
- Monthly case presentations with group video supervision.
- Individual video supervision.

CLINICAL PSYCHOLOGY INTERN

MARCH 2013 – JUNE 2013

Child Outpatient Department

New York-Presbyterian/Weill Cornell Medical College

Supervisor: Shannon Bennett, Ph.D. & Justin Mohatt, M.D.

Outpatient clinic for children and adolescents providing individual psychotherapy and parent management training.

Activities included

- Conducting CBT with children with mood/anxiety/ADHD/Tic Disorders.
- Attending and participating in case conferences and disposition meetings.
- Participating as a co-leader in the parenting group focused on parenting and behavior management skills that work effectively with teens, especially those with behavior and attention problems.

CLINICAL PSYCHOLOGY INTERN

NOVEMBER 2012 – MARCH 2013

Adolescent Inpatient Unit

New York-Presbyterian/Westchester Division

Supervisors: Beryl Filton, Ph.D., Jeremy Stone, Ph.D., & Nnenna Okereke, M.D.

Adolescent inpatient program for children 12 to 18 years of age providing stabilization treatment for a variety of acute psychiatric diagnoses, including suicidal threats, severe aggression, and impulse control behavior that endangers themselves or others.

Activities included

- Conducting short-term CBT/dialectical-behavior therapy (DBT) therapy with adolescents on an adolescent inpatient unit.
- Attending and participating in clinical rounds.
- Helping to create, implement, and co-lead a DBT skills group.
- Conducting brief neuropsychological screenings/assessments to facilitate patients' placements (academic and residential)
- Participating as a co-leader in an outpatient DBT multi-family skills group.

CLINICAL PSYCHOLOGY INTERN

JULY 2012 – OCTOBER 2012

Psychiatric Emergency Room

Weill Cornell Medical College

Supervisor: Susan Bram, Ph.D.

Psychiatric emergency and crisis intervention, with services including psychiatric emergency evaluations, referral to outpatient providers, and facilitation of inpatient admissions.

Activities included

- Conducting intake evaluations in emergency room for adults, adolescents, and children with severe mental illnesses to determine diagnostic impressions and treatment plans.

- Writing psychiatric evaluation reports.
- Obtaining collateral, including coordination with prior treatment care providers, contacting manage care/insurance to obtain services, and provided referrals or placement for inpatient treatment.

CLINICAL PSYCHOLOGY INTERN

JULY 2012 – OCTOBER 2012

Psychological Testing Services

Weill Cornell Medical College

Supervisors: Faith Gunning-Dixon, Ph.D., Chaya Gopin, Ph.D., & Shivani Patel, Ph.D.

Outpatient and inpatient service providing neuropsychological testing for adults, adolescents and children referred for evaluation of neurological, learning, and psychiatric disorders, or of medical disorders associated with neurobehavioral syndromes.

Activities included

- Conducting neuropsychological assessments for adults on an inpatient unit and children in an outpatient clinic. The following instruments were administered, scored, and compiled into integrated reports: WAIS-IV, Controlled Oral Word Association Test (COWAT-FAS), Wechsler Memory Scale-IV (WMS-IV), California Verbal Learning Test-II (CVLT-II), Rey-Osterrieth Complex Figure Test (RCFT), Stroop Test, Minnesota Multiphasic Personality Inventory-II (MMPI-II), WISC-IV, Woodcock-Johnson (WJ-III), Conners' Continuous Performance Test II, Delis-Kaplan Executive Functioning System (D-KEFS), Grooved Pegboard, NEPSY-II, Boston Naming Test, Beery-Buktenica Developmental Test of Visual-Motor Integration (Beery VMI), & Children's Memory Scale (CMS).

CLINICAL ASSISTANT

SUMMER 2011 – SUMMER 2012

Clinical Psychology Center

University of Pittsburgh

Supervisor: Andrew Koffmann, Ph.D.

Community outpatient clinic for children, adolescents, and adults offering psychotherapy and assessment services at reduced fees.

Responsibilities included

- Day-to-day clinic operating procedures.
- Peer supervision of other student clinicians.
- Providing liaison between clients and clinicians.
- Conducting phone intakes for potential therapy and assessment clients.
- Filing clinic paperwork, entering psychological testing data for research purposes.

STUDENT CLINICIAN

SUMMER 2006 – SUMMER 2012

Clinical Psychology Center

University of Pittsburgh

Supervisors: Andrew Koffmann, Ph.D.; Anna Marsland, Ph.D., R.N.; Linda Ewing, Ph.D., R.N.; Debra Frankel, L.C.S.W.; & Ray Naar, Ph.D.

Community outpatient clinic for children, adolescents, and adults offering reduced fees, with services including individual outpatient therapy, group therapy, marital/couples counseling, and neuropsychological testing for children, adolescents, and adults.

Activities included

- Supervision in cognitive-behavioral therapy (CBT), interpersonal psychotherapy (IPT), Rogerian psychotherapy, family therapy, motivational interviewing (MI), relaxation training, group therapy, and parenting group training.
- Conducting individual therapy with children, adolescents, and adults; family therapy.
- Conducting couples counseling using Relationship Enhancement (RE) therapy.
- Leading parenting group focusing on parenting and behavior management skills that work effectively with children, especially those with behavior and attention problems.
- Conducting weekly adult therapy group for adults with depression and anxiety.

- Conducting psychodiagnostic and neuropsychological assessments of children and adults seeking evaluations for learning disabilities, ADHD testing, cognitive and intellectual functioning, and mental health services. The following instruments were administered, scored, and compiled into integrated reports: BDI, BAI, COWAT-FAS, MMPI -2, Test of Variables of Attention (TOVA), WAIS-III, WIAT-II, WISC-IV, & Trails A & B.
- Peer supervision of other student clinicians.

CLINICAL EXTERN

FALL 2010 – SPRING 2011

Sports Medicine Concussion Program

University of Pittsburgh Medical Center

Supervisor: Jamie Pardini, Ph.D.

Outpatient clinic for children, adolescents, and adults with concussions directed by Mark Lovell, Ph.D. Services include diagnosis, evaluation, and management of concussion injuries and post-concussive symptoms.

Activities included

- Conducting intake assessments, evaluations, and neuropsychological testing for children, adolescents, and adults with mild traumatic brain injury.
- Conducting evaluations and follow-up management using a computerized testing system to evaluate objectively the severity of concussions and determine when an athlete can safely return to contact play following a concussion using ImPACT (Immediate Post-Concussion and Cognitive Testing).
- Conducting neurocognitive testing in children, adolescents, and adults with mild traumatic brain injury. The following instruments were administered, scored, and compiled into integrated reports: IMPACT, Post-Concussive Symptom Scale (PCSS), WRAML, CVLT, BVMT, HVL, Grooved Pegboard, Trails, COWAT, Clock Drawing Test, Wisconsin Card Sorting Test, Delis-Kaplan, portions of the WAIS-III, WRAT 3, Symbol Digit Modalities Test (SDMT), and Rey-Osterrieth Complex Figure Test.

CLINICAL EXTERN

SUMMER 2009 – FALL 2010

Services for Teens at Risk (STAR-Center)

Western Psychiatric Institute and Clinic

Supervisor: Kimberly Poling, L.C.S.W.

Outpatient clinic for adolescents at risk for suicide directed by David Brent, M.D. Services include assessments, individual outpatient therapy, and group therapy for depressed and anxious adolescents.

Activities included

- Conducting extensive intake assessments utilizing standard measures (KSADS-PL) focused on determining suicidal risk and DSM-IV diagnoses and completing integrated psychiatric reports.
- Conducting weekly individual cognitive-behavioral (CBT) and dialectical-behavior therapy (DBT) with suicidal adolescents.
- Being an advocate for clients with academic difficulties by attending school meetings.
- Co-leading intensive outpatient program therapy focusing on group-based treatments and learning of skills to cope with depression, anxiety, and self-harming behaviors.

CLINICAL EXTERN

SPRING 2010 – SUMMER 2010

Division of Developmental-Behavioral Pediatrics

Children's Hospital of Pittsburgh of UPMC

Supervisors: Hilary Feldman, Ph.D. & Christy Emmons, Ph.D.

Family-centered clinic that specializes in assessing a child's developmental, behavioral, or emotional delays with an emphasis on children with developmental disorders, genetic disorders, and long-term consequences of medical conditions. Services include comprehensive neuropsychological evaluations and cognitive evaluations of toddlers, children, and adolescents to determine a child's strengths and weaknesses in many areas of functioning and determine, if possible, the factors contributing to a child's difficulties. Recommendations may include appropriate educational goals, settings and strategies.

Activities included

- Conducting neuropsychological evaluations for children, adolescents, and young adults with developmental and behavioral difficulties, seizure disorders, cochlear implants, or other medical conditions (e.g., epilepsy, temporal lobectomy, Neurofibromatosis, stroke) seeking neurocognitive assessments. The following instruments were administered, scored, and compiled into integrated reports: Beery VMI, D-KEFS, Grooved Pegboard, Vineland, NEPSY-II, CVLT, WPPSI, WISC-IV, WAIS-IV, WASI, WRAML, WMS, & Woodcock-Johnson Tests of Achievement.

CLINICAL EXTERN

FALL 2009

Diagnostic and Evaluation Center (DEC)

Western Psychiatric Institute and Clinic

Supervisor: Christopher Parada, M.S.W.

Psychiatric emergency and crisis intervention, with services including psychiatric emergency evaluations, walk-in crisis therapy, referral to outpatient providers, and facilitation of inpatient admissions.

Activities included

- Conducting intake evaluations in emergency room for adults, adolescents, and children with severe mental illnesses.
- Writing psychiatric reports.
- Contacting managed care/insurance to obtain services, and provided referrals or placement for inpatient treatment.

THERAPIST

SUMMER 2000

Partners-in-Therapy

Bala Cynwyd, PA

Mobile therapy provided to families of children with autism.

Activities included

- Conducting discrete trial therapy in children with autism.
- Using intensive structured teaching methods to teach basic skills and language to children with autism.

SPECIALIZED CLINICAL TRAINING

Advanced CBT-I Training

University of Pennsylvania

(Cognitive-Behavioral Therapy for Insomnia)

Instructor: Michael Perlis, Ph.D., Donn Posner, Ph.D., Jason Ellis, Ph.D.

SPRING 2015

Participated in a training workshop on the theory, research, and implementation of cognitive-behavioral therapy for insomnia (CBT-I). Training included lectures, demonstration, and role-playing.

Dialectical Behavior Therapy Training

American Institute for Cognitive Therapy

Instructor: Nikki Rubin, Psy.D.

FALL 2013

Participated in a training workshop on the theory, research, and implementation of dialectical behavior therapy (DBT). Training included lectures, demonstration, and role-playing.

Personality Disorders Institute Seminar

New York-Presbyterian Hospital/
Weill Cornell Medical College

Instructor: Otto Kernberg, M.D.

JUNE 2012 – JULY 2013

Year-long weekly seminar on the theory and treatment of Axis II disorders. Training includes didactic presentations and supervision of individual therapy cases.

Transference-focused Psychotherapy Seminar

New York-Presbyterian Hospital/
Weill Cornell Medical College

Instructors: Diana Diamond, Ph.D., Frank Yeomans, Ph.D., John Clarkin, Ph.D., & Jill Delaney, LCSW

JUNE 2012 – JULY 2013

Year-long weekly seminar on the conceptual and practical application of transference-focused psychotherapy to treat Borderline Personality Disorder and Narcissistic Personality Disorder. Training includes didactic presentations, case presentations, and supervision of individual therapy cases.

Transformational Chairwork Training

National Psychological Association for Psychoanalysis

Instructors: Scott Kellogg, Ph.D.

SUMMER 2012

Attended a training workshop on how to use the Chairwork technique to address the complexities of making choices, resolving grief, healing from interpersonal trauma, and mitigating internal conflicts. Training included didactic presentations, scripted and unscripted role-plays, and live demonstrations.

Trauma Focused CBT for Traumatized Children and Their Families

Allegheny General Hospital

Instructors: Anthony Mannarino, Ph.D. & Judy Cohen, M.D.

FALL 2011

Attended a training workshop addressing empirical support for and implementation of trauma-focused CBT. Training included lectures and case presentations with trauma narrative examples.

Motivational Interview Training

University of Pittsburgh

Instructor: Allan Zuckoff, Ph.D.

SUMMER 2011

Participated in a training workshop on the theory, research, and implementation of motivational interviewing. Training included lectures, demonstration, and role-playing.

RESEARCH EXPERIENCE

GRADUATE STUDENT RESEARCHER

2007 – 2013

Genetics Program

University of Pittsburgh

Child and Adolescent Psychiatry

Mentors: Peter J. Gianaros, Ph.D., Erika E. Forbes, Ph.D., & Ahmad R. Hariri, Ph.D.

Study Aim and Activities: Research in examining neurobiological risk factors related to depression and substance use using neuroimaging methodologies; investigating brain phenotypes related to functional polymorphisms in genes implicated in neuropsychiatric illness using neuroimaging techniques; and examining neurobiological correlates of post-traumatic stress disorder in soldiers scanned both pre- and post-deployment.

Responsibilities included

- Processing data and conducting data analyses of fMRI data using brain imaging (SPM) and statistical packages (SPSS).
- Manuscript preparation.

GRADUATE STUDENT RESEARCHER

2005 –2007

Behavioral Genetics Research Program

University of Pittsburgh School of Medicine
Western Psychiatric Institute & Clinic

Mentor: Shirley Y. Hill, Ph.D.

Study Aim and Activities: Research examining the genetics and development of alcoholism, and the identification of psychological and biological (ERP, MRI) antecedents of alcoholism in a longitudinal high-risk offspring design.

Responsibilities included

- Processing structural neuroimaging data collected from children, adolescents, and adults.
- Manually tracing various brain structures using brain imaging software (Brains2).
- Analysis of structural and clinical data in high-risk children.

INTRAMURAL RESEARCH TRAINING AWARD (IRTA) RECIPIENT

2002 – 2005

Genes, Cognition, and Psychosis Program

National Institute of Mental Health

Clinical Brain Disorders Branch

Mentors: Ahmad R. Hariri, Ph.D. & Daniel R. Weinberger, M.D.

Study Aim and Activities: Research examining imaging genomics and emotional affect processing using fMRI to investigate sex differences and the impact of genetically driven variation on the functional dynamics of the amygdala, hippocampus, and prefrontal cortex. Patient population included individuals with schizophrenia, Williams Syndrome, and Parkinson's Disease.

Responsibilities included

- Data acquisition of structural, functional, and MEG data.
- Subject consenting and pre-scan training.
- Conducting data analyses of fMRI data using brain imaging (SPM) and statistical packages (SPSS).
- Conducting data analyses of magnetoencephalography (MEG) data using brain imaging software (SAM, CTF, AFNI) and statistical packages (SPSS) to examine affective priming in time-frequency analyses.

IRTA RECIPIENT

2001 – 2002

Pain and Neurosensory Mechanisms Branch

National Institute of Dental and Craniofacial Research

RESEARCH TECHNICIAN

2001 – 2002

Chronic Pain and Fatigue Center

Georgetown University

Mentors: Richard H. Gracely, Ph.D., & Daniel J. Clauw, M.D.

Study Aim and Activities: Research examining pain manifestations in chronic multi-symptomatic illnesses including Chronic Fatigue Syndrome, Gulf War Syndrome, and chronic lower back pain.

Responsibilities included

- fMRI data acquisition.
- Processing data and conducting data analyses of fMRI data using brain imaging (MedX) and statistical packages (SPSS).

RESEARCH ASSISTANT

JUNE 2000 – MAY 2001

Psychology Department

Haverford College

Mentors: Rebecca J. Compton, Ph.D. & Wendy F. Sternberg, Ph.D.

Study Aim and Activities: Thesis examining the relationship between sex and coping styles (e.g., rumination, distraction) in perceptual asymmetry.

Responsibilities included

- Developing study protocol, coordinating test subjects, collecting data.
- Administering Profile of Mood States mood questionnaire (POMS), the Response Styles Questionnaire (RSQ), and the Beck Depression Inventory (BDI).
- Writing and defending thesis.

MANUSCRIPTS

- White, M.G., Bogdan, R., Fisher, P.M., **Muñoz K.E.**, Williamson, D.E., & Hariri, A.R. (2012). FKBP5 and emotional neglect interact to predict individual differences in amygdala reactivity. *Genes, Brain, and Behavior* 11 (7): 869-78.
- Muñoz K.E.**, Meyer-Lindenberg A., Hariri A.R., Mervis C.B., Mattay V.S., Morris C.A., & Berman K.F. (2010). Abnormalities in Neural Processing of Emotional Stimuli in Williams Syndrome Vary According to Social vs. Non-Social Content. *Neuroimage* 50 (1): 340-346.
- Muñoz K.E.**, Hyde L.W., & Hariri A.R. (2009). Imaging genetics. *Journal of the American Academy of Child and Adolescent Psychiatry*, 48 (4): 356-61.
- Fakra E., Hyde L.W., Gorka A., Fisher P.M., **Muñoz K.E.**, Kimak M., Halder I., Ferrell R.E., Manuck S.B., & Hariri A.R. (2009). Effects of HTR1A C(-1019)G on amygdala reactivity and trait anxiety. *Archives of General Psychiatry*, 66 (1): 33-40.
- Fisher P.M., **Muñoz K.E.**, & Hariri A.R. (2008). Identification of neurogenetic pathways of risk for psychopathology. *American Journal of Medical Genetics Part C (Seminars in Medical Genetics)* 148C: 147-153.
- Garolera M., Coppola, R., **Muñoz K.E.**, Elvevåg B., Carver F.W., Weinberger D.R., & Goldberg T.E. (2007). Amygdala activation in affective priming: A Magnetoencephalogram study. *Neuroreport*, 18 (14): 1449-53.
- Drabant E., Hariri A.R., Meyer-Lindenberg A., **Muñoz K.E.**, Mattay V.S., Kolachana B.S., Egan M.F., & Weinberger D.R. (2006). Catechol-O-methyltransferase Val¹⁵⁸Met genotype and neural mechanisms related to affective arousal and regulation. *Archives of General Psychiatry*, 63: 1396-1406.
- Meyer-Lindenberg A., Hariri A.R., **Muñoz K.E.**, Mervis C., Mattay, V.S., Morris C., & Berman K.F. (2005). Neural correlates of genetically abnormal social cognition in Williams syndrome. *Nature Neuroscience*, 8 (8): 991-993.
- Pezawas L., Meyer-Lindenberg A., Drabant E.M., Verchinski B.A., **Muñoz K.E.**, Kolachana B.S., Egan M.F., Mattay V.S., Hariri A.R., & Weinberger D.R. (2005). 5-HTTLPR polymorphism impacts anatomy human cingulate-amygdala interactions: a susceptibility gene for depression. *Nature Neuroscience*, 8 (6): 828-834.
- Hariri A.R., Drabant E.M., **Muñoz K.E.**, Kolachana B.S., Mattay V.S., Egan M.F., & Weinberger D.R. (2005). A susceptibility gene for affective disorders and the response of the human amygdala. *Archives of General Psychiatry*, 62 (2): 146-152.
- Compton R.J., Fisher L.R., Koenig L.M., McKeown R., & **Muñoz K.** (2003). Relationship between coping styles and hemispheric asymmetry. *Journal of Personality and Social Psychology*, 84(5), 1069-1078.

ABSTRACTS AND CONFERENCE PRESENTATIONS

- Muñoz K.E.**, Stote D.L., Telch M.J., & Hariri A.R. Combat deployment effects on threat-related amygdala reactivity. Society of Biological Psychiatry Sixty-Fifth Annual Meeting, New Orleans, 2010.
- Hyde L.W., **Muñoz K.E.**, Olvera R.L., Hariri A.R., & Williamson, D.E. Functional Brain Correlates of Antisocial Behavior and Callous Traits in Adolescents. Paper Symposium: Neuroscience Approaches to Adolescent Antisocial Behavior: fMRI Studies Toward Understanding Empathy and Callousness. Society for Research on Adolescence Thirteenth Biennial Meeting, Philadelphia, 2010.
- Hyde L.W., **Muñoz K.E.**, Olvera R.L., Hariri A.R., & Williamson, D.E. The effect of reporter and measure on functional brain correlates of callous traits and empathy in adolescents. Society for Neuroscience Thirty-ninth Annual Meeting, Chicago, 2009.
- Muñoz K.E.**, Olvera R.L., Williamson D.E., & Hariri A.R. Amygdala and ventral striatum reactivity in adolescents at high-risk for depression. Wisconsin Symposium on Emotion Fifteenth Annual Meeting, Madison, 2009.
- Hyde L.W., Shaw D.S., **Muñoz K.E.**, Olvera, R.L., Williamson D.E., & Hariri A.R. Functional brain correlates of antisocial behavior and callous traits in adolescents. Wisconsin Symposium on Emotion Fifteenth Annual Meeting, Madison, 2009.
- Hyde L.W., **Muñoz K.E.**, Olvera R.L., Hariri A.R., & Williamson D.E. Functional brain correlates of traits and behaviors related to psychopathy in adolescents. Society for the Scientific Study of Psychopathy Third Annual meeting, New Orleans, 2009.
- Hyde L.W., Shaw D.S., **Muñoz K.E.**, Olvera, R.L., Williamson D.E., & Hariri A.R. Functional brain correlates of antisocial behavior and callous traits in adolescents. Society for Research in Child Development Biennial meeting, Denver, 2009.
- Muñoz K.E.**, Olvera R.L., Thode, K., Hariri A.R., & Williamson D.E. Polymorphisms in the human Corticotrophin-Releasing Hormone Receptor 1 (CRHR1) gene biases amygdala and ventral striatum reactivity in adolescents. Society for Neuroscience Thirty-Eight Annual Meeting, Washington, 2008.
- Hyde L.W., **Muñoz K.E.**, Williamson D.E., & Hariri A.R. Functional brain correlates of antisocial behavior and callous traits in adolescents. Society for Neuroscience Thirty-Eight Annual Meeting, Washington, 2008.
- Muñoz K.E.**, Olvera R.L., Williamson D.E., & Hariri A.R. Amygdala and ventral striatum reactivity in adolescents at high-risk for depression. Society of Biological Psychiatry Sixty-Third Annual Meeting, Washington, 2008.
- Fakra E., Fisher P.M., Brown S.M., **Muñoz K.E.**, Gorka A., Kimak M.A., Ferrell R.E., Manuck S.B., & Hariri A.R. 5-HT1A -1019G allele predicts relatively blunted amygdala reactivity. Society of Biological Psychiatry Sixty-Third Annual Meeting, Washington, 2008.

- Muñoz K.E.**, Williamson D.E., & Hariri A.R. Familial loading for depression and amygdala reactivity. Poster Symposium: Development of emotion processing and regulation in adolescence. Society for Research on Adolescence Twelfth Biennial Meeting, Chicago, 2008.
- Muñoz K.E.**, Brown S.M., Kimak M.A., Ferrell R.E., Manuck S.B., & Hariri A.R. Genetic variation impacting Dopamine neurotransmission alters cortico-limbic reactivity. First Bi-Annual Gordon Research Conference on Amygdala in Health and Disease, Bates College, 2007.
- Muñoz K.E.**, Garolera M., Goldberg T.E., Elvevåg B., Carver F.W., Zolnick B.J., Weinberger D.R., & Coppola R. Amygdala activation in affective priming: An MEG study. Society for Neuroscience Thirty-Fifth Annual Meeting, Washington, 2005.
- Meyer-Lindenberg A., Hariri A.R., **Muñoz K.E.**, Mervis C., Mattay, V.S., Morris C., & Berman K.F. Neural mechanism of genetically abnormal social cognition in Williams syndrome. Organization for Human Brain Mapping Eleventh Annual Meeting, Toronto, 2005.
- Muñoz K.E.**, Garolera M., Goldberg T.E., Elvevåg B., Carver F.W., Zolnick B.J., Weinberger D.R., & Coppola R. Limbic activation in affective priming: An MEG study. Winter Conference on Brain Research Thirty-Eighth Annual Meeting, Breckenridge, 2005.
- Drabant E.M., Hariri A.R., **Muñoz K.E.**, Kolachana B.S., Egan M.F., & Weinberger D.R. COMT genotype and neural mechanisms of anxiety. Winter Conference on Brain Research Thirty-Eighth Annual Meeting, Breckenridge, 2005.
- Muñoz K.E.**, Hariri A.R., Drabant E.M., Kolachana B.S., Egan M.F., & Weinberger D.R. Episodic memories for emotional stimuli: The influence of BDNF Val⁶⁶Met genetic variation on the role of the amygdala and hippocampus. Society for Neuroscience Thirty-Fourth Annual Meeting, San Diego, 2004.
- Drabant E.M., Hariri A.R., **Muñoz K.E.**, Kolachana B.S., Egan M.F., & Weinberger D.R. Genetic variation in dopamine signaling alters amygdala reactivity. Society for Neuroscience Thirty-Fourth Annual Meeting, San Diego, 2004.
- Radulescu E., Callicott J.H., Mattay V.S., Goldberg T.E., **Muñoz K.E.**, Drabant E.M., Egan M.F., Hariri A.R., & Weinberger D.R. Brain regions activated by the negative emotional valence of memories: an fMRI study. Collegium Internationale Neuro-Psychopharmacologicum Twenty-Forth Annual Meeting in Paris, 2004.
- Muñoz K.E.**, Hariri A.R., Drabant E.M., Kolachana B.S., Egan M.F., & Weinberger D.R. BDNF Val⁶⁶Met genetic variation and the response of the human amygdala to fearful and threatening facial expressions. American College of Neuropsychopharmacology Forty-Second Annual Conference, San Juan, 2003.
- Drabant E.M., Hariri A.R., **Muñoz K.E.**, Kolachana B.S., Egan M.F., & Weinberger D.R. 5-HTTLPR and amygdala activity: Influence of gender and short allele load. American College of Neuropsychopharmacology Forty-Second Annual Conference, San Juan, 2003.
- Muñoz K.E.**, Drabant E.M., Coppola R., Weinberger D.R., & Hariri A.R. Episodic memories for neutral and emotional stimuli: The influence of sex on the role of the amygdala and hippocampus. Society for Neuroscience Thirty-Third Annual Meeting, New Orleans, 2003.

Hariri A.R., Drabant E.M., **Muñoz K.E.**, Kolachana B.S., Mattay V.S., Egan M.F., & Weinberger D.R. 5-HTTLPR driven variation in amygdala and prefrontal reactivity: Effects of sex and allele load. Society for Neuroscience Thirty-Third Annual Meeting, New Orleans, 2003.

Muñoz K.E., Zolnick B.J., Mattay V.S., Weinberger D.R., & Hariri A.R. Influence of gender on the response of the amygdala to fearful and threatening facial expressions. Organization for Human Brain Mapping Ninth Annual Meeting, New York City, 2003.

Giesecke T., Clauw D., Grant M., Kumar R., **Muñoz K.**, Nachevson A., & Gracely R. Alterations in regional cerebral blood flow (rCBF) of pain related brain areas in idiopathic chronic low back pain (ICLBP) during evoked pressure pain. American Pain Society Twenty-Second Annual Meeting, Chicago, 2003.

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Compton R., Fisher L., Koenig L., McKeown R., & **Muñoz K.** Relationship between coping styles and hemispheric asymmetry. International Neuropsychological Society Thirtieth Annual Meeting, Toronto, 2002.

Cruz R., D'Avella N., Fisher L., & **Muñoz K.** Automatic activation of subordinate racial categories by outgroup members: Testing a hierarchical model. Eastern Psychological Association Conference, Baltimore, 1999.

TEACHING EXPERIENCE

INSTRUCTOR

Research Methods in Psychology

University of Pittsburgh

Terms: Spring 2008, Fall 2009, Spring 2010

Taught an undergraduate laboratory focused on the principals of research methodology. Planned weekly lectures intended to provide students with an opportunity to gain hands-on experience in conducting research. Laboratory exercises included designing research projects, conducting literature searches, collecting and analyzing data, and writing up the results of studies. Additionally, students learned how to write about psychological research using APA guidelines to develop an effective, professional writing style.

PROFESSIONAL AFFILIATIONS

- Professional member of the Anxiety and Depression Association of America (ADAA)
- Professional member of NYC-Cognitive Behavioral Therapy (NYC-CBT) Association
- Student member of the Society for Research on Adolescence (SRA)
- Student member of Society for Neuroscience (SFN)

PROFESSIONAL ACTIVITIES AND SERVICE

- NYC-Cognitive Behavioral Therapy (NYC-CBT) Association Marketing Committee member, (2013-2014); Technology Committee member, (2014)
- Clinical Psychology Program Diversity Committee member, Department of Psychology, University of Pittsburgh, (2008 – 2012)
- Graduate student mentor for the Hot Metal Bridge (HMB) Scholars program, University of Pittsburgh, (2011– 2012)
The HMB program is a post-baccalaureate program for under-represented minorities to help prepare students for successful graduate careers
- Clinical Psychology Program Graduate Student Representative, Department of Psychology, University of Pittsburgh, (2006-2007)