

CURRICULUM VITAE

Adam X. Gorka
axgorka@gmail.com

National Institute for Mental Health / Section on the Neurobiology of Fear and Anxiety

Education

PhD in Cognition and Cognitive Neuroscience, 2015
Duke University

Bachelor of Science in Psychology, 2006
University of Pittsburgh

Peer Reviewed Publications

Gorka AX, LaBar KS, Hariri, AR. Variability in emotional responsiveness and coping style during active avoidance as a window onto psychological vulnerability to stress. *Physiology & Behavior* (2016)

Gorka AX, Norman RE, Radke SR, Carré JM, Hariri, AR. Anterior Cingulate Cortex Gray Matter Volume Mediates an Association between 2D:4D Ratio and Aggression in Women but not Men. *Psychoneuroendocrinology* (2015)

Gorka AX, Hanson JL, Radke SR, Hariri, AR. Reduced hippocampal and medial prefrontal gray matter mediate the association between reported childhood maltreatment and trait anxiety in adulthood and predict sensitivity to future life stress. *Biology of Mood and Anxiety Disorders* (2014)

Gorka AX, Knodt A, Hariri, AR. Basal Forebrain Moderates the Magnitude of Task Dependent Amygdala Functional Connectivity. *Social Cognitive and Affective Neuroscience*. (2014)

Ahs F, Davis CF, **Gorka AX**, Hariri AR. Feature-Based Representations of Emotional Facial Expressions in the Human Amygdala. *Social Cognitive and Affective Neuroscience*. (2013)

Gunduz-Cinar O, MacPherson KP, Cinar R, Gamble-George J, Sugden K, Williams B, Godlewski G, Ramikie TS, **Gorka AX**, Alapafuja SO, Nikas SP, Makriyannis A, Paulton R, Patel S, Hariri AR, Caspi A, Moffitt TE, Kunos G, Holmes, A. Convergent Translational Evidence of a Role for Anandamide in Amygdala-Mediated Fear Extinction, Threat Processing and Stress-Reactivity. *Molecular Psychiatry*. (2013)

Hyde LW, **Gorka A**, Manuck SB, Hariri AR. Perceived Social Support Moderates the Link between Threat-Related Amygdala Reactivity and Trait Anxiety. *Neuropsychologia* (2011).

Fakra E, Hyde LW, **Gorka A**, Fisher PM, Munoz KE, Kimak M, Halder I, Ferrell RE, Manuck SB, Hariri AR. Effects of *HTR1A* C(-1019)G on Amygdala Reactivity and Trait Anxiety. *Archives of General Psychiatry* (2010).

Manuck SB, Marsland A, Flory J, **Gorka A**, Ferrrel RE, Hariri A. A Trinucleotide (CAG) Length Polymorphism in the Androgen Receptor Gene and Salivary Testosterone Predict Amygdala Reactivity in Men. *Psychoneuroendocrinology*. (2010).

Hariri AR, **Gorka A**, Hyde LW, Kimak M, Halder I, Ducci F, Ferrell RE, Goldman D, Manuck SB. Divergent Effects of Genetic Variation in Endocannabinoid Signaling on Threat- and Reward-Related Human Brain Function. *Biological Psychiatry* (2009)

Presentations

Gorka AX, Hariri AR. Reduced Hippocampal Grey Matter Volume Mediates Relationship between Early Life Adversity and Trait Anxiety in Young Adulthood. Society for Neuroscience (2013) Poster

Gorka A, Davis FC, Hariri AR. Experience of Childhood Maltreatment Moderates Expression of Amygdala Reactivity as Trait Anxiety in Adulthood. Gordon Research Conference (2013) Poster

Gorka A, Kimak M, Ferrell R, Manuck SB, Hariri AR. A Functional Prodynorphin Polymorphism Moderates the Link between Ventral Striatum Reactivity and Alcohol Consumption. Society for Biological Psychiatry (2010) Poster

Gorka A, Kimak M, Ferrell R, Manuck SB, Hariri AR. An Interaction between Response to Reward in the Ventral Striatum and a Prodynorphin VNTR Polymorphism Predict Alcohol Consumption. Society for Neuroscience (2009) Poster

Gorka A, Marsland AL, Hariri AR Manuck SB. Salivary Testosterone Predicts Threat-Related Amygdala Reactivity in Healthy Men. Society for Neuroscience (2008) Poster

Research Experience

Post-doctoral IRTA, Section for the Neurobiology of Fear and Anxiety, NIMH (2015-present)
*Research investigating neural systems supporting responses to unpredictable threat

Lab affiliation, Hariri lab at Duke University, 2009 - 2015
*Research investigating behavioral correlates of BOLD fMRI & structural MRI data

Research Rotation, Bilbo lab at Duke University, Spring 2010
*Research involving early infection models of rodents assessing neural and behavioral changes

Research Assistant, Hariri Lab at University of Pittsburgh, Oct. 2007-July 2009
*Processing, analysis, and quality assurance for fMRI paradigms probing reward, affective, and cognitive control processes for the Functional Imaging Genomics (FIGS) and Adult Health and Behavior II (AHABII) studies

Teaching Experience

Spring 2013 – Teaching assistant for Dr. Ahmad Hariri’s class “Inside the Disordered Brain” which entailed grading exams, leading review sessions, and conducting several class lectures

Fall 2013 – Teaching assistant for Dr. Scott Swartzwelder’s class “Alcohol: Brain/Individual/Society” which entailed providing revised writing feedback for term papers

Fall 2011 – Teaching assistant for Dr. Ahmad Hariri’s class “Inside the Disordered Brain” which entailed grading exams, leading review sessions, and conducting several class lectures

Fall 2010 – Teaching assistant for Dr. Roberto Cabeza’s class “Introduction to Cognitive Psychology” which entailed scoring exams and leading a discussion section based on class reading

Technical Skills

Statistical Software

*R, MATLAB, SPSS, SAS

MRI data analysis (SPM / AFNI)

*Task derived individual and group level analyses, Resting BOLD, PPI, VBM

Awards

Awarded Honorable Mention for 2011 National Science Foundation Graduate Research Fellowship

Awarded Honorable Mention for 2010 National Science Foundation Graduate Research Fellowship

Professional Activities

Ad-hoc Reviewer – *Cortex*

Ad-hoc Reviewer – *PNAS*

Ad-hoc Reviewer – *NeuroImage*

Ad-hoc Reviewer – *Neuropsychopharmacology*

Ad-hoc Reviewer – *Aggressive Behavior*

Ad-hoc Reviewer – *Psychiatry Research: Neuroimaging*