

# AMANDA BLUE ZHEUTLIN, PH.D.

amandabluezheutlin@gmail.com • 206-550-5086 • 185 Cambridge St., Boston, MA

## EMPLOYMENT

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- 2017-Present **Massachusetts General Hospital**, Boston, MA  
Postdoctoral Research Fellow, Center for Genomic Medicine  
Adviser: Jordan W. Smoller, M.D., Sc.D.
- 2011-2013 **National Institute of Mental Health**, Bethesda, MD  
Intramural Research Training Award Fellow, Clinical Brain Disorders Branch  
Advisers: Joseph Callicott, M.D., Daniel Weinberger, M.D.

## EDUCATION

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|-----------|--------------------------|---------|--|
| 2013-2017 | <b>Yale University</b>   | Ph.D.   | Psychology – Behavior, Genetics, & Neuroscience<br>(Adviser: Tyrone Cannon, Ph.D.)     |
| 2013-2016 | <b>Yale University</b>   | M.Phil. | Psychology – Behavior, Genetics, & Neuroscience  |
| 2013-2015 | <b>Yale University</b>   | M.S.    | Psychology – Behavior, Genetics, & Neuroscience  |
| 2007-2011 | <b>Haverford College</b> | B.S.    | Psychology (Honors), Neural & Behavioral Sciences<br>(Adviser: Rebecca Compton, Ph.D.) |

## HONORS & AWARDS

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- 2018 **Center for Genomic Medicine Travel Award**, Massachusetts General Hospital
- 2015-2016 **Michal Navon Graduate Fellowship**, Yale University
- 2015 **NIMH Summer Institute for Cognitive Neuroscience**, University of California – Santa Barbara
- 2014 **Sackler Summer Institute for Developmental Psychobiology**, Weill Cornell Medical College
- 2011 **Psi Chi International Honor Society in Psychology**, Haverford College
- 2010 **KINSC Summer Research Grant**, Haverford College

## PUBLICATIONS

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- Choi KW, **Zheutlin AB**, Karlson R, Wang M-J, Dunn EC, Stein MB, Koenen KC, Karlson EW, & Smoller JW. (submitted). Physical activity and genetic factors influence risk for incident depression assessed via electronic health records.
- Cross-Disorder Group of the Psychiatric Genomics Consortium, et al. (2019). Genome wide meta-analysis identifies genomic relationships, novel loci, and pleiotropic mechanisms across eight psychiatric disorders. *bioRxiv*.
- Zheutlin AB**, Dennis J, Restrepo N, Straub P, Ruderfer D, Castro VM, Kirchner HL, Chabris CF, Davis LK, & Smoller JW. (2018). Penetrance and pleiotropy of polygenic risk scores for schizophrenia in 106,160 patients across four healthcare systems. *bioRxiv*.
- Chekroud SR, Gueorguieva R, **Zheutlin AB**, Paulus M, Krumholz HM, Krystal JH, & Chekroud AM. (2018). Physical activity and mental health – Author's reply. *Lancet Psychiatry*.
- Chekroud SR, Gueorguieva R, **Zheutlin AB**, Paulus M, Krumholz HM, Krystal JH, & Chekroud AM. (2018). Association between physical activity and mental health: a cross-sectional study of 1.2M individuals in the USA between 2011 and 2015. *Lancet Psychiatry*.

6. **Zheutlin AB**, & Ross DA. (2018). Polygenic risk scores: What are they good for? *Biological Psychiatry*, 8, e51-e53.
7. Chekroud AM, Foster D, **Zheutlin AB**, Gerhard D, Roy B, Koutsouleris N, Chandra A, Esposti MD, Subramanyan G, Gueorguieva R, Paulus M, & Krystal JH. (2018). Predicting barriers to treatment for depression in a US national sample: a cross-sectional, proof-of-concept study. *Psychiatric Services*.
8. Reed JL, D'Ambrosio E, Marengo S, Ursini G, **Zheutlin AB**, Blasi G, Spencer BE, Romano R, Hochheiser J, Reifman A, Sturm J, Berman KF, Bertolino A, Weinberger DR, Callicott JH. (2018). Interaction of childhood urbanicity and variation in dopamine genes alters adult prefrontal function as measured by functional magnetic resonance imaging (fMRI). *PLOS ONE*, 13, e0195189.
9. **Zheutlin AB\***, Chekroud AM\*, Polimanti R, Gelernter J, Sabb FW, Bilder RM, Freimer N, London E, Hultman C, & Cannon TD. (2018). Multivariate pattern analysis of genotype-phenotype relationships in schizophrenia. *Schizophrenia Bulletin*.
10. Allswede D, **Zheutlin A**, Chung Y, Anderson K, Hultman CM, Ingvar M, & Cannon TD. (2018). Complement gene expression predicts superior temporal cortical thickness in humans. *Neuropsychopharmacology*, 43, 525-533.
11. Bradshaw NJ, Pankakoski M, Ukkola-Vuoti L, **Zheutlin AB**, Ortega-Alonso A, Torniainen-Holm M, Sinha V, Therman S, Paunio T, Suvisaari J, Lonnqvist J, Cannon TD, Haukka J, & Hennah W. (2017). The NDE1 genomic locus affects treatment of psychiatric illness through gene expression changes related to microRNA-484. *Open Biology*, 7, 170153.
12. Gupta R, Qaiser B, He L, Hiekkalinna TS, **Zheutlin AB**, Therman S, Ollikainen M, Ripatti S, Perola M, Salomaa V, Milani L, Cannon TD, Madden PAF, Korhonen T, Kaprio J, & Loukola A. (2017). Neuregulin signaling pathway in smoking behavior. *Translational Psychiatry*, 7, e1212.
13. **Zheutlin AB**, Jeffries CD, Perkins DO, Chung Y, Chekroud AM, Addington J, Bearden CE, Cadenhead KS, Cornblatt BA, Mathalon DH, McGlashan TH, Seidman LJ, Walker EF, Woods SW, Tsuang M, & Cannon TD. (2017). The role of miRNA expression in cortical development during conversion to psychosis. *Neuropsychopharmacology*, 42, 2188-2195.
14. **Zheutlin AB**, Fortgang R, & Cannon TD. (2016). Genetics of schizophrenia. In SC Schulz, MF Green, & KJ Nelson (Eds.), *Primer On: Schizophrenia and Psychotic Spectrum Disorders*. New York: Oxford University Press.
15. **Zheutlin AB\***, Viehman RW\*, Fortgang R, Borg J, Smith DJ, Suvisaari J, Therman S, Hultman CM, & Cannon TD. (2016). Cognitive endophenotypes inform genome-wide expression profiling in schizophrenia and bipolar disorder. *Neuropsychology*, 30, 40-52.
16. Compton RJ, Hofheimer J, Kazinka R, Levinson A, & **Zheutlin A**. (2013). Alpha suppression following performance errors is correlated with depression, affect, and coping behaviors. *Emotion*, 13, 905-914.
17. Compton RJ, Huber E, Levinson AR, & **Zheutlin A**. (2012). Is "conflict adaptation" driven by conflict? Behavioral and EEG evidence for the underappreciated role of congruent trials. *Psychophysiology*, 49, 583-589.

## INVITED TALKS

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- 2019 Genetics of schizophrenia. Guest lecture, *Psychosis: Development, Symptoms, & Treatment*, Harvard University, Cambridge, MA.
- 2018 Risk stratification across healthcare systems. *Partners R User Group Meeting*, Boston, MA.
- 2018 Penetrance and pleiotropy of polygenic risk scores for schizophrenia in 90,000 patients across three healthcare systems. Symposium chair and speaker, *World Congress of Psychiatric Genetics*, Glasgow, Scotland.
- 2017 The role of miRNA expression in cortical development during conversion to psychosis. *American College of Neuropsychopharmacology*, Palm Springs, CA

- 2016 Multivariate pattern analysis of schizophrenia-associated genetic variants in relation to cognitive endophenotypes. *Society of Biology Psychiatry*, Atlanta, GA
- 2015 Medication for mental disorders. Guest lecture, *Drugs, Brain, and Behavior*, Yale University, New Haven, CT. (Returned by request in 2016 to repeat the lecture.)
- 2015 Genetic association analysis. Guest lecture, *Research Methods in Behavior Genetics*, Yale University, New Haven, CT.
- 2015 Common variants for schizophrenia ascertained through genome-wide association of a cognitive endophenotype. *International Congress on Schizophrenia Research*, Colorado Springs, CO

## POSTER PRESENTATIONS

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- 2018 Penetrance and pleiotropy of polygenic risk scores for schizophrenia in 90,000 patients across three healthcare systems. *Program in Quantitative Genomics*, Boston, MA.
- 2017 The role of miRNA expression in cortical development during conversion to psychosis. *International Congress on Schizophrenia Research*, San Diego, CA
- 2016 Cognitive endophenotypes inform genome-wide expression profiling in schizophrenia and bipolar disorder. *Cognitive Neuroscience Society*, New York, NY
- 2014 Common genetic variants predict memory and diagnostic status in schizophrenia. *Society for Research in Psychopathology*, Evanston, IL
- 2014 Relative contributions of common and rare genetic variation for risk in schizophrenia and bipolar disorder. *Society of Biology Psychiatry*, New York, NY
- 2012 ARC risk predicts PFC function, hippocampal activation, and PFC-hippocampal connectivity in an encoding and retrieval memory task. *Society for Neuroscience*, New Orleans, LA
- 2012 Making sense of GWAS data: Propensity scores and their relation to working memory and schizophrenia. *NIH Spring Research Festival*, Bethesda, MD
- 2012 ARC genotype predicts PFC efficiency and connectivity between PFC and hippocampus. *Society of Biological Psychiatry*, Philadelphia, PA
- 2010 The surround suppression effect and perception of orientation. *Howard Hughes Medical Institute Undergraduate Science Research Symposium*, Haverford, PA.

## TEACHING EXPERIENCE

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| Fall 2018   | Teaching Fellow, Psychology of Willpower, Harvard University            |
| Spring 2017 | Teaching Fellow, Abnormal Psychology, Yale University                   |
| Spring 2016 | Teaching Fellow, Drugs, Brain, and Behavior, Yale University            |
| Fall 2015   | Teaching Fellow, Research Methods in Behavior Genetics, Yale University |
| Spring 2015 | Teaching Fellow, Drugs, Brain, and Behavior, Yale University            |
| Fall 2014   | Teaching Fellow, Introduction to Clinical Neuroscience, Yale University |

## SERVICE

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| 2016 – 2017 | Coordinator, Non-Academic Career Speaker Series for Psychology, Yale University          |
| 2016 – 2017 | McDougal Student Life Fellow for the Graduate School of Arts & Sciences, Yale University |
| 2014 – 2016 | Coordinator, Current Works in Behavior, Genetics, & Neuroscience, Yale University        |
| 2014        | Student Chair, Psychology Graduate Student Recruitment, Yale University                  |

2013 – 2016

Neuroscience Area Organizer, Psychology Department Colloquium Committee, Yale University

**AD-HOC REVIEWER**

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Acta Neuropathologica

Biological Psychiatry

Clinical Psychological Science