

Richard Border
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Education

- Present Ph.D. Candidate
Behavioral, Psychiatric, and Statistical Genetics
Department of Psychology and Neuroscience, University of Colorado Boulder
- M.S. Student
Computational Science and Engineering
Department of Applied Mathematics, University of Colorado Boulder
- 2017 Master of Arts
Behavioral, Psychiatric, and Statistical Genetics
Department of Psychology and Neuroscience, University of Colorado Boulder
- 2011 Bachelor of Arts
Japanese Language and Literature
Department of East Asian Studies, Wesleyan University

Research Interests

- **Statistics and statistical genetics.** Measurement error, power, population stratification, development of new methods.
- **Metascience.** Publication and citation biases, falsifiability, false discovery rate estimation, spurious findings, reproducible research.

Research Projects: Current and Planned

- “A quantitative analysis of discrepancies between candidate gene and genome-wide studies of complex traits and related endophenotypes.” With Matthew Keller, Patrick Sullivan, and Emma Johnson
- “Evaluating historic candidate genes for major depressive disorder.” With Matthew Keller, Emma Johnson, Luke Evans, and Patrick Sullivan.
- “Erroneous comparison of effects are still ubiquitous in neuroscience research.” With Gary McClelland.
- “Adult outcomes of youth with antisocial behaviors.” With Soo Rhee and others.
- “Mortality in youth with conduct problems, their siblings, and matched controls.” With Soo Rhee and others.
- “EAGLE/ACTION Genome-wide meta-analysis of aggression and attention problems.” With Meike Bartels, Dorret Boomsma, Michel Nivard, and others.

Publications and Presentations

- 2017 Johnson, E.C., **Border, R.**, Melroy-Greif, W.E., de Leeuw, C., Ehringer, M.A., Keller, M.C..
“No evidence that schizophrenia candidate genes are more associated with schizophrenia than
non-candidate genes.” *Biological Psychiatry*. <http://dx.doi.org/10.1016/j.biopsych.2017.06.033>

Border, R. and Keller, M.C.. “Commentary: Fundamental Problems with Candidate Gene-by-Environment Interaction Studies.” *Journal of Child Psychology and Psychiatry*. <http://dx.doi.org/10.1111/jcpp.12669>

Park, A. L., Tsai, K. H., Guan, K., **Border, R.**, and Chorpita, B. F. (Talk). Unintended consequences of evidence-based treatment policy reform. In A. Park (Chair), Use of Evidence in Mental Health Treatment and Clinical Decision-Making. Symposium accepted at the 4th Biennial Society for Implementation Research Collaboration Conference, Seattle, WA.

2016 **Border, R.**, Corley R., Rhea S., Hewitt, J., Hopfer, C. , Stallings, M. , Wall, T., Young, S. and Rhee, S.H. “Mortality in Youth with Conduct Problems, Their Siblings, and Matched Controls. (Talk).” In. Boulder, CO.

2015 **Border, R.**, Sawaya, S., Huggett, S., Brown, S., Wall, T., and Stallings, M. “Sensitivity of Random Forests Algorithm to Population Stratification in GWAS Data. (Poster).” In. San Diego, CA.

Honors and Awards

2016–2018 National Institute of Mental Health Trainee T32 MH016880
Selected by faculty training committee twice consecutively.

2016–2019 Predoctoral Fellowship
Institute for Behavioral Genetics, University of Colorado Boulder

Peer Review

I have reviewed articles for the following journals:

- American Journal of Medical Genetics Part B: Neuropsychiatric Genetics
- Genes, Brain and Behavior
- Psychoneuroendocrinology

Teaching

2016 Statistical Programming with R (Graduate)
Teaching Assistant, Department of Psychology and Neuroscience.

Statistics II (Graduate)
Teaching Assistant, Department of Psychology and Neuroscience.

2015 Introduction to Statistics (Undergraduate)
Teaching Assistant, Department of Psychology and Neuroscience.

Statistical Programming with R (Graduate)
Teaching Assistant, Department of Psychology and Neuroscience.