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, Emma Johnson, and Amir Sariaslan.

- "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

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.

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

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.