

Richard Border  
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## Education

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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

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- **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

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- “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.

## Publications and presentations

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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

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- 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

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- 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.*