

## Matthew C. Keller

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Muenzinger D347B  
345 UCB  
Boulder, CO, 80309

(303) 735-5376

[www.matthewckeller.com](http://www.matthewckeller.com)

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### Positions and Education

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| July 2007-present    | University of Colorado, Boulder<br>Department of Psychology and Neuroscience<br>Institute for Behavioral Genetics<br>Assistant Professor |
| 2005-2007            | Virginia Commonwealth University<br>Virginia Institute of Psychiatric and Behavioral Genetics<br>Postdoctoral Fellow                     |
| 2004-2005 (8 months) | University of California, Los Angeles<br>Center for Society and Genetics<br>Postdoctoral Fellow  |
| 2004 (3 months)      | Queensland Institute of Medical Research, Australia<br>Genetic Epidemiology<br>Postdoctoral Fellow                                       |
| 1998-2004            | University of Michigan, Ann Arbor<br>Ph.D. in Social Psychology<br>M.A. in Statistics  |
| 1991-1996            | University of Texas, Austin<br>B.A. in Psychology<br>Minor in Biology  |

## Publications

### Refereed Journal Articles

1. The Schizophrenia Psychiatric Genome-Wide Association Study (GWAS) Consortium (2011). Genome-wide association study identifies five novel schizophrenia loci. *Nature Genetics*, 43, 969-976.
2. Simonson, M. A., Wills, A. G., **Keller, M. C.**<sup>†</sup>, & McQueen, M. B.<sup>†</sup> (2011). A comprehensive approach assessing the contribution of polygenic variation to risk of cardiovascular disease, *BMC Medical Genetics*, 12, 146.
3. Howrigan, D. P, Simonson, M. A, & **Keller, M. C.** (2011). Detecting autozygosity using runs of homozygosity: A comparison of three autozygosity detection algorithms. *BMC Genomics*, 12, 460-475.
4. **Keller, M. C.**, Visscher, P. M., & Goddard, M. E. (2011). Quantification of inbreeding due to distant ancestors and its detection using dense SNP data. *Genetics*, 189, 237-249
5. Duncan, L. E. & **Keller, M. C.** (2011). A critical review of the first ten years of candidate gene-by-environment interaction research in psychiatry. *American Journal of Psychiatry*, 168, 1041-1049.
6. Howrigan, D. P., Simonson, M. A., Kamens, H. M., Stephens, S. H., Wills, A. G., Ehringer, M. A., **Keller, M. C.**, & McQueen, M. B. (in press). Minor allele load analysis on unrelated sequence data. *BMC Genetics*.
7. **Keller, M. C.**, Medland, S. E., & Duncan, L. E. (2010). Are extended twin family designs worth the trouble? A comparison of the bias, precision, and accuracy of parameters estimated in four twin family models. *Behavior Genetics*, 40, 377-393. [**Fulker Award winner, best paper published in Behavioral Genetics, 2010**].
8. Hatemi, P. K., Medland, S. E., **Keller, M. C.**, Martin, N. G., Hibbing, J. R., Smith, K., Alford, J. R. & Eaves L. J. (2010). Not by twins alone: Using the extended family design to investigate genetic influence on political beliefs. *American Journal of Political Science*, 54, 798-814.
9. Ybarra, O., **Keller, M. C.**, Chan, E., Garcia, S. M., Sanchez-Burks, J., Morrison, K. R., & Baron, A. S. (2010). Being unpredictable: Friend or Foe Matters. *Social Psychological and Personality Science*, 1, 259-267.
10. **Keller, M. C.**, McCrae, A., McGaughan, J. M., Visscher, P. M., Visscher, P. M., Martin, N. G., & Montgomery, G. W. (2009). Non-pathological paternal isodisomy of chromosome 2 detected from a genome-wide SNP scan. *American Journal of Medical Genetics Part A*, 149, 1823-1826.

11. **Keller, M. C.**, Medland, S. E., Duncan, L. E., Hatemi, P. K., Neale, M. C., Maes, H. H. M., Eaves, L. J. (2009). Modeling extended twin family data I: Description of the Cascade model. *Twin Research and Human Genetics*, 29, 8-18.
12. Medland, S. E., & **Keller, M. C.** (2009). Modeling extended twin family data II: Power associated with different family structures. *Twin Research and Human Genetics*, 29, 19-25.
13. Maes, H. H., Neale, M. C., Medland, S. E., **Keller, M. C.**, Martin, N. G., Heath, A. C., & Eaves, L. J. (2009). Flexible Mx specifications of various extended twin kinship designs. *Twin Research and Human Genetics*, 29, 26-34.
14. **Keller, M. C.** (2008). On the evolutionary persistence of genes that increase mental disorder risk. *Current Directions of Psychological Science*, 17, 395-399.
15. Zietsch, B. P., Morley, K. I., Shekar, S. N., Verweij, K. J. H., **Keller, M. C.**, Macgregor, S., Wright, M. J., Bailey, J. M., Martin, N. G. (2008). Genetic factors predisposing to homosexuality may increase mating success in heterosexuals. *Evolution and Human Behavior*, 29, 424-433.
16. Medland, S. E., Loehlin, J. C., Willemsen, G., Hatemi, P. K., **Keller, M. C.**, Boomsma, D. I., Eaves, L. J., & Martin, N. G. (2008). Males do not reduce the fitness of their female co-twins in contemporary samples. Data from Australia, the Netherlands, and the United States. *Twin Research and Human Genetics*, 11, 481-487.
17. Ybarra, O., Burnstein, E., Winkielman, P., **Keller, M. C.**, Manis, M., Chan, E., & Rodriguez, J. (2008). Mental exercising through simple socializing: Social interaction promotes general cognitive functioning. *Personality and Social Psychology Bulletin*, 34, 248-259.
18. **Keller, M. C.** (2007). Standards of evidence in the nascent field of evolutionary behavioral genetics. *European Journal of Personality*, 21, 608-610.
19. **Keller, M. C.**, Neale, M. C., & Kendler, K. S. (2007). Association of different adverse life events with distinct patterns of depressive symptoms. *American Journal of Psychiatry*, 164, 1521-1529. [**Selected by the editors as a notable paper of 2007**]
20. **Keller, M. C.**, & Miller, G. F. (2006). Resolving the paradox of common, harmful, heritable mental disorders: Which evolutionary genetic models work best? *Behavioral and Brain Sciences*, 29, 385-452. [**BBS Editors' Choice Award**]
21. **Keller, M. C.**, & Miller, G. F. (2006). An evolutionary framework for mental disorders: Integrating adaptationist and evolutionary genetic models. *Behavioral and Brain Sciences*, 29, 429-441

22. **Keller, M. C.**, & Nesse, R. M. (2006). The evolutionary significance of depressive symptoms: Different adverse situations lead to different depressive symptom patterns. *Journal of Personality and Social Psychology*, 91, 316-330.
23. Cannon, T., & **Keller, M. C.** (2005). Endophenotypes in genetic analyses of mental disorders. *Annual Review of Clinical Psychology*, 2, 267-290.
24. **Keller, M. C.**, Coventry, W. L., Heath, A. C., & Martin, N. G. (2005). Widespread evidence for non-additive genetic variation in Cloninger's and Eysenck's personality dimensions using a twin plus sibling design. *Behavior Genetics*, 35, 707-721.
25. **Keller, M. C.**, Fredrickson, B. L., Ybarra, O., Côté, S., Johnson, K., Mikels, J., & Wager, T. (2005). A warm heart and a clear head: The contingent effects of weather on human mood and cognition. *Psychological Science*, 17, 724-731.
26. **Keller, M. C.** & Coventry, W. L. (2005). Quantifying and addressing parameter indeterminacy in the classical twin design. *Twin Research and Human Genetics*, 8, 201-213.
27. Coventry, W. L. & **Keller, M. C.** (2005). Estimating the extent of parameter bias in the classical twin design: A comparison of parameter estimates from the extended twin-family and classical twin designs. *Twin Research and Human Genetics*, 8, 214-223.
28. Wager, T., **Keller, M. C.**, Jonides, J., Smith, O., & Lacey, S. (2005). Increased sensitivity in neuroimaging analyses using robust regression. *NeuroImage*, 26, 99-113.
29. **Keller, M. C.**, & Nesse, R. M. (2005). Subtypes of low mood provide evidence of its adaptive significance. *Journal of Affective Disorders*, 86, 27-35.
30. **Keller, M. C.**, Nesse, R. M., & Hofferth, S. (2001). The Trivers-Willard effect in parental investment: No effect in the contemporary U.S. *Evolution and Human Behavior*, 22, 343-360.
31. **Keller, M. C.**, Thiessen, D. T., & Young, R. K. (1996). Mate assortment in dating and married couples. *Personality and Individual Differences*, 21, 217-221.

#### Books, Chapters, And Editorials

1. Visscher, P. M., & **Keller, M. C.** (in press). (Mis)understanding heritability. To appear in *European Journal of Personality*.
2. **Keller, M. C.**, Howrigan, D. P., & Simonson, M. A. (2010). Theory and methods in evolutionary behavioral genetics. In D. Buss & P. Hawley (Eds.), *Evolution of personality and individual differences*.

3. **Keller, M. C.** (2008). An evolutionary genetic framework for heritable disorders. *Encyclopedia of Life Sciences (ELS)*. John Wiley & Sons Ltd: Chichester.
4. **Keller, M. C.** (2008). Dr. Keller replies [Response to Letter], *American Journal of Psychiatry*, 165, 533-534.
5. **Keller, M. C.** (2008). The role of mutation in human mating. In G. Geher & G. Miller (Eds.), *Mating intelligence: Theoretical, experimental, and differential perspectives*. Lawrence Erlbaum: Mahwah, NJ.
6. **Keller, M. C.** (2008). Problems with the imprinting hypothesis of schizophrenia and autism. [Commentary]. *Brain and Behavioral Sciences*, 31, 241-320.
7. Ybarra, O., **Keller, M. C.**, Chan, E., Baron, A. S., Hutsler, J., Garcia, S. M., Sanchez-Burks, J., & Morrison, K. R. (2007). The social prediction dynamic: A legacy of cognition and mixed motives. In J. Forgas, M. Haselton, & W. von Hippel (Eds.), *Evolution and the Social Mind*. Psychology Press: New York.
8. **Keller, M. C.** (2004) Evolutionary explanations of schizophrenia must ultimately explain the genes that predispose to it [Commentary]. *Behavioral and Brain Sciences*, 27, 861-862.

#### Manuscripts Under Review and in Preparation

1. Lee, S. H., Simonson, DeCandia, T., Yang, J., International Schizophrenia Consortium, Sullivan, P. F., Goddard, M. E., **Keller, M. C.**<sup>†</sup>, Visscher, P. M.<sup>†</sup>, Wray, N. R.<sup>†</sup> (under review at *Nature Genetics*). Dissection of risk to schizophrenia using genome-wide SNPs captures one-third of variation in liability and is consistent with polygenic variation and an important role of common causal variants
2. **Keller, M. C.** & Gangestad, S. W. (chapter under review for the edited volume, *Rethinking human misery: An evolutionary perspective on human psychiatric disorders* [Oxford Press]). Using evolutionary theory to unravel the mysteries of maladaptive, heritable traits.
3. Gangestad, S. W. & **Keller, M. C.** (chapter under review for the edited volume, *Rethinking human misery: An evolutionary perspective on human psychiatric disorders* [Oxford Press]). Schizophrenia, neurodevelopmental disorders, and developmental instability.
4. Andrews, P. W., Hagen, E. H., S. W. Gangestad, & **M. C. Keller** (eds.) (in prep, book accepted at Oxford Press). *Rethinking human misery: An evolutionary perspective on human psychiatric disorders*.

5. **Keller, M. C.**, Simonson, M. A., Howrigan, D. P., Ripke, S. & **the Psychiatric Genetics Consortium** (under review at *PLoS Genetics*). The effects of homozygosity on risk for schizophrenia.
6. Garver-Apgar, C., Zeitsch, B. & **Keller, M. C.** (in prep). Resolving the etiology of the genetic correlation between height and IQ through use of an extended twin family model.

**Note:** †joint senior author

## Conference Presentations

1. **Keller, M. C.**, de Candia, T., Yang, J., Goddard, M. E., & Visscher, P. M. Using genome-wide SNP data to estimate the additive genetic variation caused by common and rare causal variants. Poster presented at the 2011 International Congress of Human Genetics, Montreal, Canada.
2. Simonson, M. A., Wills, A. G., McQueen, M. A., **Keller, M. C.** A comprehensive approach assessing the contribution of polygenic variation to risk of cardiovascular disease. Poster presented at the 2011 International Congress of Human Genetics, Montreal, Canada
3. de Candia, T., Lee, S. H., Yang, N. R., Gejman, P. V., Levinson, P. F., J., Visscher, P. M., Wray, & **Keller, M. C.** Additive genetic variation in risk to schizophrenia tagged by common SNPs in an admixed African American population. Poster presented at the 2011 International Congress of Human Genetics, Montreal, Canada
4. Howrigan, D. P., Davies, G., Neale, B. M., McRae, A. F., Harris, S. E., Martin, N. G., Wright, M. J., Pendleton, N., Payton, A., Horan, M., Ollier, A., Tenessa, J., Starr, M., Deary, I.J., Visscher, P. M., & **Keller, M. C.** The effect of genome-wide autozygosity on cognitive ability. Poster presented at the 2011 International Congress of Human Genetics, Montreal, Canada
5. **Keller, M. C.** & Duncan, L. E. Publication bias and false discovery rate in gene-by-environment research in psychiatry. Paper presented at the 2011 Behavioral Genetics Association meeting, Newport, R.I.
6. **Keller, M. C.** & Simonson, M. A. on behalf of the Schizophrenia Psychiatric GWAS Consortium (PGC) and the Schizophrenia PGC Runs of Homozygosity Analysis Subgroup. The effects of runs of homozygosity on risk for schizophrenia. Paper presented at the 2010 World Congress of Psychiatric Genetics, Athens, Greece.
7. Howrigan, D. P., & **Keller, M. C.** Using homozygosity by descent to measure distal inbreeding. Paper presented at the 2010 World Congress of Psychiatric Genetics, Athens, Greece.

8. Duncan, L. E. & **Keller, M. C.** Critical Review of Gene-Environment Interactions in Psychiatry: Evidence Consistent with the Possibility of Publication Bias, Low Power, and Type I Errors in the Literature. Poster presented at the 2010 World Congress of Psychiatric Genetics, Athens, Greece.
9. Simonson, M. A., Gejman, P. V., **Keller, M. C.** A genome-wide scan for specific regions of homozygosity that predict schizophrenia risk. Poster presented at the 2010 World Congress of Psychiatric Genetics, Athens, Greece.
10. **Keller, M. C.** An evolutionary framework for heritable mental disorders. Special Lecture presented at the 2010 NGFN MoodS Symposium, Bonn, Germany.
11. Duncan, L. E., **Keller, M. C.**, Willcutt, E. G., McClelland, G. H. A comprehensive review of measured genotype by environment (GxE) interactions: Trends, methodological issues, and recommendations. Poster presented at the 2009 World Congress of Psychiatric Genetics, San Diego, CA.
12. Simonson, M. A., McQueen, M. B., **Keller, M. C.** Runs of homozygosity are not associated with increased risk of schizophrenia. Poster presented at the 2009 World Congress of Psychiatric Genetics, San Diego, CA.
13. **Keller, M. C.** An evolutionary understanding of heritable mental disorders in humans. Paper presented at the 2009 Evolution Meeting, Moscow, ID.
14. Lubke, G., **Keller, M. C.**, Hatemi, P. K., Gillespie, N. Merging twin data bases: Measurement invariance and the impediments of using sum scores in twin studies. Paper presented at the 2009 Behavior Genetics Association, Minneapolis, MN.
15. Howrigan, D. P., Simonson, M., **Keller, M. C.** Utilizing current genetic methods to understand the evolution of individual differences and mental disorders. Paper presented at the 2009 Annual Meeting of the Human Behavior and Evolution Society, Fullerton, CA.
16. **Keller, M. C.**, Neale, B., McRae, A., Harris, S., Martin, N., Deary, I., & Visscher, P. Relationship between genome-wide homozygosity and IQ. Poster presented at the Gordon Research Conference on Quantitative Genetics, Galveston, TX.
17. **Keller, M. C.**, Medland, S. E., Duncan, L. E., Hatemi, P. K., Neale, M. C., Maes, H. H. M., & Eaves, L. J. Description of the Cascade model. Paper presented at the 2008 Behavior Genetics Association, Louisville, KY.
18. **Keller, M. C.** PedEvolve: A simulator of genetically informative data implemented in R. Paper presented at the 2007 Behavior Genetics Association, Amsterdam, Netherlands.

19. **Keller, M. C.** Psychiatric genetics needs evolutionary theory. Paper presented at the 2006 World Congress on Psychiatric Genetics, Cagliari, Italy.
20. **Keller, M. C.** The evolutionary significance of depressive symptoms. Paper presented at the 2006 Annual Meeting of the Human Behavior and Evolution Society, Philadelphia, PA.
21. **Keller, M. C.** & Coventry, W. L. Quantifying and addressing parameter indeterminacy in the classical twin design. Paper presented at the 2005 Annual Meeting of Behavior Genetics, Los Angeles, CA.
22. Coventry, W. L. & **Keller, M. C.** A comparison of parameter estimates from the Stealth and Classical Twin Designs. Paper presented at the 2005 Annual Meeting of Behavior Genetics, Los Angeles, CA.
23. **Keller, M. C.** The role of mutation in mental disorders. Paper presented at the 2005 Annual Meeting of the Human Behavior and Evolution Society, Austin, TX.
24. **Keller, M. C.,** Fredrickson, B. L., Ybarra, O., Côté, S., Johnson, K., Mikels, J., & Wager, T. The contingent effects of weather on human mood and cognition. *Hot Topic Talk*, 2005 Annual Meeting of American Psychological Society, Los Angeles, CA.
25. **Keller, M. C.,** Fredrickson, B. L., Ybarra, O., Côté, S., Johnson, K., Mikels, J., & Wager, T. The effects of weather on mood and cognition: Time spent outside as the crucial moderator. Paper presented at the 2003 Annual Meeting of the Midwestern Psychological Society, Chicago, IL.
26. **Keller, M. C.** An evolutionary framework for understanding mental disorders: What evolutionary genetics can tell us. Paper presented at the 2003 Annual Meeting of the Human Behavior and Evolution Society, Lincoln, NB.
27. **Keller, M. C.,** & Nesse, R. M. Is Low Mood an Adaptation? Evidence for subtypes with symptoms that match precipitants. Paper presented at the 2002 Annual Meeting of the Human Behavior and Evolution Society, Rutgers, NJ.
28. **Keller, M. C.,** & Nesse, R. M. Subtypes of low mood provide evidence for its adaptive significance. Poster presented at the 2001 Annual Meeting of the Human Behavior and Evolution Society, London, UK.
29. Nesse R. M. & **Keller M. C.** Mood: A domain-general effort allocation mechanism. Paper presented at the 2001 Annual Meeting of the Human Behavior and Evolution Society, London, UK.

30. **Keller, M. C.**, Nesse, R. M., & Hofferth, S. The Trivers-Willard Effect in parental investment: No effect in contemporary North American society. Paper presented at the 1999 Annual Meeting of the Human Behavior and Evolution Society, Salt Lake City, UT

## Invited Colloquia

1. International Leopoldina NGFN MoodS Symposium, Bonn, Germany (June, 2010).
2. Merck Institute on Biology of Developmental Disabilities, Cornell University (June, 2010).
3. Center in Psychiatric Genetics Seminar, Northwestern University (Jan., 2010).
4. Systems Biology and Social Behavior Seminar, University of Nebraska (Dec., 2009).
5. EvoS Consortium, Society for the Study of Evolution (June, 2009).
6. Grand Rounds, Akron General Medical Center (Sept., 2008).
7. Neuroscience Research Group, University of Denver (Oct., 2008).
8. Henry Stewart Talks: Evolutionary Medicine (talk avail. for purchase; Sept., 2006).
9. Center for Society and Genetics Seminar Series, UCLA, Los Angeles, CA (April, 2005).
10. Behavior, Evolution, and Culture, UCLA, Los Angeles, CA (March, 2005).
11. Virginia Institute of Psychiatric and Behavioral Genetics, Richmond, VA (February, 2004).
12. Evolutionary Studies Seminar Series, SUNY Binghamton, NY (October, 2003).
13. Evolutionary Human Adaptation Program, University of Michigan, MI (February, 2001).

## Grant Support

### Active

|   |                          |               |
|---|--------------------------|---------------|
| <b>NIMH K01 MH085812-01A1.</b> (Keller) | 1/01/2010 – 12/31/2014   | 6.00 academic |
| NIH/NIMH                                | \$824,000 (total direct) | 3.00 summer   |

**Evolutionary Roles of Homozygosity & Copy Number Variation in Mental Disorders.**  
This application proposes to use dense whole-genome SNP data to detect distal inbreeding effects on the risk for psychiatric disorders.

### Submitted

|                                |                            |             |
|--------------------------------|----------------------------|-------------|
| <b>1 R01 DA-12-003</b> (Wager) | 01/01/2011-12/30/2016      | 0 academic  |
| NIH/NIDA                       | \$3,754,486 (total direct) | 2.00 summer |

**Brain Mechanisms of Individual Differences in Placebo Analgesia and Subjective Drug Effects**  
This application collects data on fMRI and genome-wide SNP data to help elucidate the causes of individual differences in placebo analgesia.  
*Role: Co-I (overall project); Co-I (Institute for Behavioral Genetics Analysis Component)*

## Affiliations

- American Society for Human Genetics
- International Society for Twin Studies
- Behavior Genetics Association

## Courses Taught

### University of Colorado

PSYC 7102: *Population Genetics in the Modern Genomic Era* Fall 2010  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: TBA; Course Rating: TBA

PSYC 3101: *Statistical and Research Methods - Honors* Fall 2009  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: 5.7; Course Rating: 5.4

PSYC 5541: *Statistical Programming with R* Spring 2009  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: 5.9; Course Rating: 5.6

PSYC 3101: *Statistical and Research Methods – Honors* Spring 2009  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: 5.3; Course Rating: 4.6

PSYC 5541: *Statistical Programming with R* Fall 2008  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: 5.6; Course Rating: 5.3

PSYC 3101: *Statistical and Research Methods – Honors* Spring 2008  
 Department of Psychology and Neuroscience, University of Colorado; Boulder, CO  
 Instructor Rating: 5.0; Course Rating: 4.8

### Other Teaching Experience

- *Introduction to the R Statistical Language* (Co-Instructor), VIPBG (Summer 2006 & 2007)
- *Evolution, Genetics, and Mental Disorders* (Instructor), UCLA (Spring 2005)
- *Introduction to Social Psychology* (Teaching Asst.), University of Michigan (Winter 2003)
- *Advanced Graduate Statistics* (Teaching Asst.), University of Michigan (Fall 2002)
- *Introduction to Statistics* (Teaching Asst.), University of Michigan (Fall 2001, Winter 2002)

## Short Courses & Workshops

- 2011 *Advanced Workshop on Statistical Genetics*, Boulder, CO – Instructor
- 2010 *OpenMx Workshop*, Richmond, VA – Instructor

- 2010 *Workshop on Methodology of Twin and Family Studies*, Boulder, CO – Instructor
- 2008 *International Statistical Genetics Methods Workshop*, Leuven, Belgium – Instructor
- 2008 *Workshop on Methodology of Twin and Family Studies*, Boulder, CO – Instructor

## Advisory and Supervisory Responsibilities

### Dissertation Committee Chair

Laramie Duncan (graduate student, CU Boulder) May, 2010  
 Title: *Critical review of gene-environment interactions in psychiatry*

### Mentored Postdoctoral Trainees

Dr. Christine Garver-Apgar, NIMH Training Grant 2008 - present  
 Topic: Multivariate genetic relationships underlying psychiatric disorders

### Mentored Predoctoral Trainees

Laramie Duncan, Psych & Neuroscience (co-mentor with Dr. Wilcutt) 2007 - 2010  
 Topic: Gene-by-environment interactions

Dan Howrigan, Psych & Neuroscience (co-mentor with Dr. McQueen) 2008 - present  
 Topic: Population genetics of psychiatric disorders

Matt Simonson, Psych & Neuroscience (co-mentor with Dr. McQueen) 2008 - present  
 Topic: Computation genomics

Amanda Wills, Psych (co-mentor with Dr. Carey) 2009 - present  
 Topic: Genetic epidemiology

Teresa DeCandia, Psych (co-mentor with Dr. Hewitt) 2010 - present  
 Topic: Polygenic heritability methods

### Predoectional Thesis Committee Membership

Amanda Wills (graduate student, CU Boulder) 2009 – present  
 Dan Howrigan (graduate student, CU Boulder) 2008 - present  
 Matthew Simonson (graduate student, CU Boulder) 2008 - present  
 Debra Boeldt (graduate student, CU Boulder) 2008 - present  
 Angela Brant (graduate student, CU Boulder) 2007 - present  
 Laramie Duncan (graduate student, CU Boulder) 2007 - 2010

### Undergraduate Honors Thesis Committee Membership

Beth Chitel, Psych and Neuroscience, CU Boulder (B.A.) Nov, 2010  
 Alex Clark, Psych and Neuroscience, CU Boulder (B.A.) March, 2009

## Departmental Service

### Psychology & Neuroscience Department

- Honors Undergraduate Committee (2007-present)
- Co-Director, Undergraduate Research Day (2007-present)

### Institute for Behavioral Genetics

- Organizer, IBG Journal Club (2008-present)
- Member, IBG Training Committee (2010-present)

## Awards & Distinctions

- |           |   |
|-----------|---|
| 2011      | Fulker Award (Keller, Medland, & Duncan, 2010), Best paper published in <i>Behavioral Genetics</i> , 2010.                  |
| 2009      | Editor's Choice Article (Keller & Miller, 2006) [1 of 7 chosen in last 4 years], <i>Behavioral and Brain Sciences</i>       |
| 2007      | Notable paper of 2007 (Keller, Neale, & Kendler, 2007) [1 of 6], <i>American Journal of Psychiatry</i>                      |
| 2007      | <i>Lindon J. Eaves Award for Excellence in Postdoctoral Research</i> , (VIPBG)  |
| 2006      | Runner-up, Postdoctoral Talk Competition, 2006 Annual Meeting of the Human Behavior and Evolution Society, Philadelphia, PA |
| 2001      | <i>Brickman Prize</i> (Best Paper in Social Psychology), University of Michigan   |
| 1998-2002 | <i>Graduate Research Fellowship</i> , National Science Foundation (NSF)   |

## Editorial Service

### Ad Hoc & Academic Book Reviewer

- *Acta Psychiatrica Scandinavica* (2010)
- *American Journal of Medical Genetics B* (2008)
- *Alcoholism: Clin. & Exp. Research* (2007)
- *American Journal of Medical Genetics B* (2008)
- *American Journal of Psychiatry* (2008)
- *Behavioral and Brain Sciences* (2008)
- *Behavior Genetics* (2006, 2007, 2008, 2009, 2009, 2010, 2011)
- *Biological Psychiatry* (2009)
- *BMC Evolutionary Biology* (2010)
- *Current Directions of Psychological Science* (2008)
- *Emotion* (2007, 2010)
- *Evolution and Human Behavior* (2006, 2006, 2007, 2008, 2009, 2009)
- *Human Nature* (2009)
- *Human Genetics* (2008)
- *Journal of Personality* (2006)
- *Journal of Politics* (2009)
- *Journal of Theoretical Biology* (2007, 2009)

- Molecular Genetics and Genomics (2011)
- Molecular Psychiatry (2010)
- Neuropsychiatric Genetics (2008)
- Oxford University Press (2007)
- Personality and Individual Differences (2006, 2007)
- Personality and Social Psychology Review (2009)
- PLOS Genetics (2008, 2009, 2010)
- Proc. of the Royal Society B: Biological Sciences (2006)
- Psychiatric Research (2006)
- Psychological Medicine (2008, 2009)
- Psychological Reports (2007)
- Psychological Science (2006, 2008, 2010)
- Twin Research & Human Genetics (2006, 2007, 2008, 2010, 2011)

## **A Sample of Popular Press Coverage of Research**

- Men's Health, *The Science of Heartbreak*, March, 2009
- Colorado Arts & Sciences Magazine, *An Evolutionary Paradox*, March, 2009
- Scientific American, *'Spring Fever' Is a Real Phenomenon*, March 22, 2007
- The Los Angeles Times, *The Mind, As It Evolves*, Feb 12, 2007
- Psychology Today, *Happiness is a Beach, Sometimes*, Feb, 2006
- The Washington Post, *Unconventional Wisdom: Spring Forward, Fall Down*, Oct 9, 2005
- The Courier Mail (Queensland, Australia), *Rugged Up in Winter Blues*, July 2, 2005
- Herald Sun (Melbourne, Australia), *Bright Way to Lift Spirits*, June 24, 2005
- The Los Angeles Times, *Happy Daze*, April 18, 2005
- Science Central News, *Sunny Mood*, Jan 27, 2005
- ABC News, *A Walk in Nice Weather Improves Mood*, Nov 4, 2004