

Jeffrey Lessem

1102 Birch St
Broomfield, CO 80020
☎ +1 (303) 887-2432
✉ Jeff@Lessem.org

Education

- 1999 **Ph.D.**, *University of Colorado*, Boulder, Colorado, Behavior Genetics.
- 1997 **M.A.**, *University of Colorado*, Boulder, Colorado, Behavior Genetics.
- 1993 **B.A.**, *University of Texas*, Austin, Texas, Psychology.

Employment

- 1999–present **Research Associate**, *Institute for Behavioral Genetics*, University of Colorado.
Duties involve performing original and collaborative research on topics in behavioral genetics, including drug abuse, delinquency, BMI, statistical methods in genetics, and other topics.
- 1999–present **System Administrator**, *Institute for Behavioral Genetics*, University of Colorado.
Duties involve maintaining a scientific computing and general use computing environment.
- 1999–present **Faculty**, *International Workshop on Methodology of Twin and Family Studies*.
Duties involve constructing a classroom computing system for teaching of statistical software.
- 2000–2003 **Computing Consultant**, *Wellcome Trust Centre for Human Genetics*, University of Oxford, Oxford, UK.
Duties involved constructing and maintaining a computing cluster for statistical genetic applications.
- 1993–1999 **Graduate Student**, *Institute for Behavioral Genetics*, University of Colorado.
- 1994–1998 **Computing Consultant**, *International Workshop on Methodology of Twin and Family Studies*.
Duties involved constructing a classroom computing system for teaching of statistical software.

Doctoral Dissertation

Title	<i>Life Events and Depressed Mood</i>
Supervisor	John Hewitt
Description	Longitudinal twin pair data was used to investigate the causal relationship between life events and depressed mood in adolescents.

Publications

- [1] B. C. Haberstick, S. E. Young, J. S. Zeiger, J. M. Lessem, J. K. Hewitt, and C. J. Hopfer. Prevalence and correlates of alcohol and cannabis use disorders in the United States: results from the national longitudinal study of adolescent health. *Drug Alcohol Depend*, 136:158–161, Mar 2014. [PubMed Central:PMC3963405] [DOI:10.1016/j.drugalcdep.2013.11.022] [PubMed:24440049].
- [2] B. C. Haberstick, A. Smolen, G. L. Stetler, J. W. Tabor, T. Roy, H. Rick Casey, A. Pardo, F. Roy, L. A. Ryals, C. Hewitt, E. A. Whitsel, C. T. Halpern, L. A. Killeya-Jones, J. M. Lessem, J. K. Hewitt, and K. M. Harris. Simple sequence repeats in the national longitudinal study of adolescent health: an ethnically diverse resource for genetic analysis of health and behavior. *Behav. Genet.*, 44(5):487–497, Sep 2014. [PubMed Central:PMC4244076] [DOI:10.1007/s10519-014-9662-x] [PubMed:24890516].
- [3] B. C. Haberstick, J. M. Lessem, J. K. Hewitt, A. Smolen, C. J. Hopfer, C. T. Halpern, L. A. Killeya-Jones, J. D. Boardman, J. Tabor, I. C. Siegler, R. B. Williams, and K. Mullan Harris. MAOA genotype, childhood maltreatment, and their interaction in the etiology of adult antisocial behaviors. *Biol. Psychiatry*, 75(1):25–30, Jan 2014. [PubMed Central:PMC3815496] [DOI:10.1016/j.biopsych.2013.03.028] [PubMed:23726513].
- [4] G. H. Lubke, S. H. Stephens, J. M. Lessem, J. K. Hewitt, and M. A. Ehringer. The CHRNA5/A3/B4 gene cluster and tobacco, alcohol, cannabis, inhalants and other substance use initiation: replication and new findings using mixture analyses. *Behav. Genet.*, 42(4):636–646, Jul 2012. [PubMed Central:PMC3743232] [DOI:10.1007/s10519-012-9529-y] [PubMed:22382757].
- [5] B. C. Haberstick, M. A. Ehringer, J. M. Lessem, C. J. Hopfer, and J. K. Hewitt. Dizziness and the genetic influences on subjective experiences to initial cigarette use. *Addiction*, 106(2):391–399, Feb 2011. [PubMed Central:PMC3017238] [DOI:10.1111/j.1360-0443.2010.03133.x] [PubMed:20955488].

- [6] B. C. Haberstick, J. M. Lessem, M. B. McQueen, J. D. Boardman, C. J. Hopfer, A. Smolen, and J. K. Hewitt. Stable Genes and Changing Environments: Body Mass Index Across Adolescence and Young Adulthood. *Behav Genet*, Jan 2010. [DOI:10.1007/s10519-009-9327-3] [PubMed:20087641].
- [7] R. J. Schulz-Heik, S. H. Rhee, L. E. Silvern, B. C. Haberstick, C. Hopfer, J. M. Lessem, and J. K. Hewitt. The Association Between Conduct Problems and Maltreatment: Testing Genetic and Environmental Mediation. *Behav Genet*, Dec 2009. [DOI:10.1007/s10519-009-9324-6] [PubMed:20024671].
- [8] R. Jay Schulz-Heik, S. H. Rhee, L. Silvern, J. M. Lessem, B. C. Haberstick, C. Hopfer, and J. K. Hewitt. Investigation of genetically mediated child effects on maltreatment. *Behav. Genet.*, 39:265–276, May 2009. [PubMed Central:PMC2693353] [DOI:10.1007/s10519-009-9261-4] [PubMed:19283463].
- [9] J. S. Zeiger, B. C. Haberstick, I. Schlaepfer, A. C. Collins, R. P. Corley, T. J. Crowley, J. K. Hewitt, C. J. Hopfer, J. Lessem, M. B. McQueen, S. H. Rhee, and M. A. Ehringer. The neuronal nicotinic receptor subunit genes (CHRNA6 and CHRNB3) are associated with subjective responses to tobacco. *Hum. Mol. Genet.*, 17:724–734, Mar 2008. [DOI:10.1093/hmg/ddm344] [PubMed:18055561].
- [10] I. R. Schlaepfer, N. R. Hoft, A. C. Collins, R. P. Corley, J. K. Hewitt, C. J. Hopfer, J. M. Lessem, M. B. McQueen, S. H. Rhee, and M. A. Ehringer. The CHRNA5/A3/B4 gene cluster variability as an important determinant of early alcohol and tobacco initiation in young adults. *Biol. Psychiatry*, 63:1039–1046, Jun 2008. [PubMed Central:PMC2526976] [DOI:10.1016/j.biopsych.2007.10.024] [PubMed:18163978].
- [11] B. C. Haberstick, D. Timberlake, C. J. Hopfer, J. M. Lessem, M. A. Ehringer, and J. K. Hewitt. Genetic and environmental contributions to retrospectively reported DSM-IV childhood attention deficit hyperactivity disorder. *Psychol Med*, 38:1057–1066, Jul 2008. [DOI:10.1017/S0033291707001584] [PubMed:17892623].
- [12] R. P. Corley, J. S. Zeiger, T. Crowley, M. A. Ehringer, J. K. Hewitt, C. J. Hopfer, J. Lessem, M. B. McQueen, S. H. Rhee, A. Smolen, M. C. Stallings, S. E. Young, and K. Krauter. Association of candidate genes with antisocial drug dependence in adolescents. *Drug Alcohol Depend*, 96:90–98, Jul 2008. [PubMed Central:PMC2574676] [DOI:10.1016/j.drugalcdep.2008.02.004] [PubMed:18384978].
- [13] D. S. Timberlake, C. J. Hopfer, S. H. Rhee, N. P. Friedman, B. C. Haberstick, J. M. Lessem, and J. K. Hewitt. College attendance and its effect on

drinking behaviors in a longitudinal study of adolescents. *Alcohol. Clin. Exp. Res.*, 31:1020–1030, Jun 2007. [DOI:10.1111/j.1530-0277.2007.00383.x] [PubMed:17403064].

- [14] D. S. Timberlake, B. C. Haberstick, C. J. Hopfer, J. Bricker, J. T. Sakai, J. M. Lessem, and J. K. Hewitt. Progression from marijuana use to daily smoking and nicotine dependence in a national sample of U.S. adolescents. *Drug Alcohol Depend*, 88:272–281, May 2007. [DOI:10.1016/j.drugalcdep.2006.11.005] [PubMed:17174040].
- [15] I. R. Schlaepfer, H. V. Clegg, R. P. Corley, T. J. Crowley, J. K. Hewitt, C. J. Hopfer, K. Krauter, J. Lessem, S. H. Rhee, M. C. Stallings, J. M. Wehner, S. E. Young, and M. A. Ehringer. The human protein kinase C gamma gene (PRKCG) as a susceptibility locus for behavioral disinhibition. *Addict Biol*, 12:200–209, Jun 2007. [DOI:10.1111/j.1369-1600.2007.00063.x] [PubMed:17508994].
- [16] J. T. Sakai, J. M. Lessem, B. C. Haberstick, C. J. Hopfer, A. Smolen, M. A. Ehringer, D. Timberlake, and J. K. Hewitt. Case-control and within-family tests for association between 5HTTLPR and conduct problems in a longitudinal adolescent sample. *Psychiatr. Genet.*, 17:207–214, Aug 2007. [DOI:10.1097/YPG.0b013e32809913c8] [PubMed:17621163].
- [17] C. J. Hopfer, J. M. Lessem, C. A. Hartman, M. C. Stallings, S. S. Cherny, R. P. Corley, J. K. Hewitt, K. S. Krauter, S. K. Mikulich-Gilbertson, S. H. Rhee, A. Smolen, S. E. Young, and T. J. Crowley. A genome-wide scan for loci influencing adolescent cannabis dependence symptoms: evidence for linkage on chromosomes 3 and 9. *Drug Alcohol Depend*, 89:34–41, Jun 2007. [PubMed Central:PMC1892279] [DOI:10.1016/j.drugalcdep.2006.11.015] [PubMed:17169504].
- [18] B. C. Haberstick, D. Timberlake, M. A. Ehringer, J. M. Lessem, C. J. Hopfer, A. Smolen, and J. K. Hewitt. Genes, time to first cigarette and nicotine dependence in a general population sample of young adults. *Addiction*, 102:655–665, Apr 2007. [DOI:10.1111/j.1360-0443.2007.01746.x] [PubMed:17309537].
- [19] M. A. Ehringer, H. V. Clegg, A. C. Collins, R. P. Corley, T. Crowley, J. K. Hewitt, C. J. Hopfer, K. Krauter, J. Lessem, S. H. Rhee, I. Schlaepfer, A. Smolen, M. C. Stallings, S. E. Young, and J. S. Zeiger. Association of the neuronal nicotinic receptor beta2 subunit gene (CHRN2) with

subjective responses to alcohol and nicotine. *Am. J. Med. Genet. B Neuropsychiatr. Genet.*, 144B:596–604, Jul 2007. [DOI:10.1002/ajmg.b.30464] [PubMed:17226798].

- [20] D. S. Timberlake, S. H. Rhee, B. C. Haberstick, C. Hopfer, M. Ehringer, J. M. Lessem, A. Smolen, and J. K. Hewitt. The moderating effects of religiosity on the genetic and environmental determinants of smoking initiation. *Nicotine Tob. Res.*, 8:123–133, Feb 2006. [DOI:10.1080/14622200500432054] [PubMed:16497606].
- [21] D. S. Timberlake, B. C. Haberstick, J. M. Lessem, A. Smolen, M. Ehringer, J. K. Hewitt, and C. Hopfer. An association between the DAT1 polymorphism and smoking behavior in young adults from the National Longitudinal Study of Adolescent Health. *Health Psychol*, 25:190–197, Mar 2006. [DOI:10.1037/0278-6133.25.2.190] [PubMed:16569110].
- [22] J. M. Lessem, C. J. Hopfer, B. C. Haberstick, D. Timberlake, M. A. Ehringer, A. Smolen, and J. K. Hewitt. Relationship between adolescent marijuana use and young adult illicit drug use. *Behav. Genet.*, 36:498–506, Jul 2006. [DOI:10.1007/s10519-006-9064-9] [PubMed:16565887].
- [23] C. A. Hartman, J. M. Lessem, C. J. Hopfer, T. J. Crowley, and M. C. Stallings. The family transmission of adolescent alcohol abuse and dependence. *J. Stud. Alcohol*, 67:657–664, Sep 2006. [PubMed:16847533].
- [24] M. C. Stallings, R. P. Corley, B. Dennehey, J. K. Hewitt, K. S. Krauter, J. M. Lessem, S. K. Mikulich-Gilbertson, S. H. Rhee, A. Smolen, S. E. Young, and T. J. Crowley. A genome-wide search for quantitative trait Loci that influence antisocial drug dependence in adolescence. *Arch. Gen. Psychiatry*, 62:1042–1051, Sep 2005. [DOI:10.1001/archpsyc.62.9.1042] [PubMed:16143736].
- [25] C. J. Hopfer, D. Timberlake, B. Haberstick, J. M. Lessem, M. A. Ehringer, A. Smolen, and J. K. Hewitt. Genetic influences on quantity of alcohol consumed by adolescents and young adults. *Drug Alcohol Depend*, 78:187–193, May 2005. [DOI:10.1016/j.drugalcdep.2004.11.003] [PubMed:15845322].
- [26] B. C. Haberstick, J. M. Lessem, C. J. Hopfer, A. Smolen, M. A. Ehringer, D. Timberlake, and J. K. Hewitt. Monoamine oxidase A (MAOA) and antisocial behaviors in the presence of childhood and adolescent maltreatment. *Am. J. Med. Genet. B Neuropsychiatr. Genet.*, 135B:59–64, May 2005. [DOI:10.1002/ajmg.b.30176] [PubMed:15806601].

- [27] S. H. Rhee, J. K. Hewitt, J. M. Lessem, M. C. Stallings, R. P. Corley, and M. C. Neale. The validity of the Neale and Kendler model-fitting approach in examining the etiology of comorbidity. *Behav. Genet.*, 34:251–265, May 2004. [DOI:10.1023/B:BEGE.0000017871.87431.2a] [PubMed:14990866].
- [28] M. C. Stallings, R. P. Corley, J. K. Hewitt, K. S. Krauter, J. M. Lessem, S. K. Mikulich, S. H. Rhee, A. Smolen, S. E. Young, and T. J. Crowley. A genome-wide search for quantitative trait loci influencing substance dependence vulnerability in adolescence. *Drug Alcohol Depend.*, 70:295–307, Jun 2003. [PubMed:12757967].
- [29] J. M. Lessem, S. S. Cherny, and J. L. Lessem. DeFries-Fulker multiple regression analysis of sibship QTL data: a SAS macro. *Bioinformatics*, 17:371–372, Apr 2001. [PubMed:11301308].

Teaching

- 2000–2014 **Faculty**, *International Workshop On Statistical Genetics And Methodology Of Twin And Family Studies*, Boulder, Colorado, Introductory course.
(even years)
- 1999–2013 **Faculty**, *International Workshop On Statistical Genetics And Methodology Of Twin And Family Studies*, Boulder, Colorado, Advanced course.
(odd years)
- 2008 **Faculty**, *The Twenty-Second International Statistical Genetics Methods Workshop*, Katholieke Universiteit Leuven, Leuven, Belgium.
Anniversary course, advanced topics and symposium
- 1998 **Faculty**, *Eleventh International Workshop on Methodology Of Twin and Family Studies*, Katholieke Universiteit Leuven, Leuven, Belgium.
Introductory and advanced course
- 1997-1998 **Teaching Assistant**, *University of Colorado*, Introduction to Computing.
- 1995 **Teaching Assistant**, *University of Colorado*, Introduction to Behavior Genetics.

Conferences

Sessions Chaired

- 2012 **Behavior Genetics Association** *Edinburgh, Scotland*, Paper Session: Alcohol and Substance Abuse

Presentations

- 2012 **Behavior Genetics Association**, *Edinburgh, Scotland*, Quantitative trait loci that influence antisocial drug dependence in adolescence: A replication analysis, Lessem, Jeffrey M., Corley Robin P., Stallings Michael C., Brown Scott, Hewitt John K., Hopfer Christian J., Krauter Kenneth S., Mikulich-Gilbertson Susan K., McQueen Matthew B., Rhee Soo H., Smolen Andrew, Tapert Susan F., Young Susan E., Crowley Thomas J..
<https://lessem.org/~lessem/presentations/Lessem-linkage.pdf>
- 2008 **Behavior Genetics Association**, *Louisville, KY*, Marijuana use and BMI in the Add Health Sample, Jeffrey M. Lessem, Brett C. Haberstick, John K. Hewitt, Christian J. Hopfer, Matthew B. McQueen.
<https://lessem.org/~lessem/presentations/Lessem-bmi.pdf>
- 2007 **Behavior Genetics Association**, *Amsterdam, The Netherlands*, Association Between Body Mass Index and MAOA Genotype, Jeffrey M. Lessem, Brett C. Haberstick, Christian J. Hopfer, Andrew Smolen, John K. Hewitt.
<https://lessem.org/~lessem/presentations/Lessem-maoa.pdf>
- 2006 **Behavior Genetics Association**, *Storrs, Connecticut*, The Effects of Genotyping Error on Case-Control Association Using SNPs and Haplotypes, Jeffrey M. Lessem, Robin P. Corley, Marissa A. Ehringer, Brett C. Haberstick, Kenneth S. Krauter, Isabel R. Schlaepfer, Michael C. Stallings.
<https://lessem.org/~lessem/presentations/Lessem-errors.pdf>
- 2005 **Behavior Genetics Association**, *Hollywood, California*, Linkage for Cannabis Dependence on Chromosomes 3 and 9, Jeffrey M Lessem, Christian J Hopfer, Stacey S Cherny, Robin P Corley, John K Hewitt, Kenneth S Krauter, Susan K Mikulich, Soo Hyun Rhee, Andrew Smolen, Susan E Young, Thomas J Crowley.
https://lessem.org/~lessem/presentations/lessem_cannabis.pdf
- 2004 **Behavior Genetics Association**, *Aix-en-Provence, France*, Relation between early use of marijuana and later illicit drug use in the Add Health sample, Jeffrey M. Lessem, Brett C. Haberstick, Christian Hopfer, Andrew Smolen, David Timberlake, John K. Hewitt.
<https://lessem.org/~lessem/presentations/lessem-bga04.pdf>
- 2003 **Behavior Genetics Association**, *Chicago, IL*, Genetic Analysis of Antisocial Behavior and Drug Abuse in the Add Health Study, Jeffrey M. Lessem, Christian J. Hopfer, Andrew Smolen, John K. Hewitt.
<https://lessem.org/~lessem/presentations/lessem-bga03.pdf>

- 2002 **The College on Problems of Drug Dependence**, *Quebec City, Canada*, Family Transmission of Alcohol Use, Abuse, and Dependence in the CADD Sample, Jeffrey M. Lessem, Michael C. Stallings, Susan E. Young, John K. Hewitt, Thomas J. Crowley.
<https://lessem.org/~lessem/presentation/lessem-cpdd02.pdf>
Behavior Genetics Association, *Keystone, CO*, Familial Transmission of Alcohol Use and Abuse, Jeffrey M. Lessem, Michael C. Stallings, Susan E. Young, John K. Hewitt, Thomas J. Crowley.
<https://lessem.org/~lessem/presentations/lessem-bga02.pdf>
- 2001 **The College on Problems of Drug Dependence**, *Scottsdale, AZ*, Optimum methods of linkage analysis in a selected sample, Jeffrey M. Lessem, Stacey S. Cherny, Gonçalo R. Abecasis.
<https://lessem.org/~lessem/presentations/lessem-cpdd01.pdf>
Behavior Genetics Association, *Cambridge, UK*, An overview of regression methods of linkage analysis in selected samples, Jeffrey M. Lessem, Stacey S. Cherny, Gonçalo R. Abecasis, Pak C. Sham, Shaun Purcell.
<http://lessem.org/~lessem/presentations/lessem-bga01.pdf>
- 1999 **Behavior Genetics Association**, *Vancouver, Canada*, Life Events and Depressed Mood in the Virginia Twin Study of Adolescent Behavioral Development, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff.
<http://lessem.org/~lessem/presentations/lessem-bga99.pdf>
- 1998 **Behavior Genetics Association**, *Stockholm, Sweden*, Discrepancies in life event reports with multiple raters and multiple time points, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff, Joanne M. Meyer.
<http://lessem.org/~lessem/presentations/lessem-bga98.pdf>
- 1997 **Behavior Genetics Association**, *Toronto, Canada*, Longitudinal study of life events and depression in adolescence, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff, Joanne M. Meyer.
<http://lessem.org/~lessem/presentations/lessem-bga97.pdf>
- 1996 **Behavior Genetics Association**, *Pittsburgh, PA*, Discrepancies in Life Event Reports, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff, Joanne M. Meyer.
<http://lessem.org/~lessem/presentations/lessem-bga96.pdf>

- 1995 **Behavior Genetics Association**, *Richmond, VA*, Discrepancies in Life Event Reports, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff, Joanne M. Meyer.
<http://lessem.org/~lessem/presentations/lessem-bga95.pdf>
- 1994 **Behavior Genetics Association**, *Barcelona, Spain*, Differences in the Occurrence and Rating of Specific Life Events, Jeffrey M. Lessem, John K. Hewitt, Lindon J. Eaves, Judy L. Silberg, Michael Rutter, Emily Simonoff, Joanne M. Meyer.
<http://lessem.org/~lessem/presentations/lessem-bga94.pdf>