

## DANIEL E. ADKINS

Department of Sociology  
College of Social & Behavioral Science  
University of Utah  
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### EDUCATION

2009 University of North Carolina at Chapel Hill, PhD in Sociology  
2005 University of North Carolina at Chapel Hill, MA in Sociology  
2002 East Tennessee State University, BA in Psychology, *magna cum laude*

### EMPLOYMENT

2016- Assistant Professor, University of Utah, Sociology  
2016- Assistant Professor (courtesy), University of Utah, Psychiatry  
2016- Faculty Affiliate, University of Utah, Consortium for Families and Health Research  
2010-2016 Assistant Professor, Virginia Commonwealth University, Center for Biomarker Research and Precision Medicine  
2007-2010 Postdoctoral Research Associate, Virginia Commonwealth University, Center for Biomarker Research and Precision Medicine

### AREAS OF INTEREST

- Statistics
- Social inequality
- Mental health
- Genomics
- Bioinformatics

### HONORS AND AWARDS

2009 Howard W. Odum Award (University of North Carolina at Chapel Hill)  
2005 Shils-Coleman Award (American Sociological Association)  
2005 Evolution and Sociology Section, Graduate Student Paper Award (ASA)  
2005 Distinction, Doctoral Exam in Stratification (UNC Sociology)  
2005 Carolina Population Center Summer Research Residency Award (UNC)  
2004 Fellowship for Language and Area Studies (FLAS) (UNC)  
2003-2006 NICHD T32 Predoctoral Fellowship (UNC Carolina Population Center)  
2002-2003 Latané Fellowship for Multidisciplinary Studies (UNC)  
1995 National Merit Scholar Semifinalist

## GRANTS

- 2014-2019                      1R01MH104576                      Edwin van den Oord (PI)  
NIH/NIMH  
Developmental methylomics of childhood trauma and its health consequences  
The goal of this study is to identify longitudinal methylation changes in peripheral blood samples associated with childhood adversity and study short and long-term health consequences in samples from the Great Smoky Mountain Study.  
Role: Co-I
- 2011-2016                      1K01MH093731                      Daniel E Adkins (PI)  
NIH/NIMH  
Integrating genomic and environmental perspectives on internalizing disorders  
The goal of this study is to provide advanced training in statistical genetics and bioinformatics. I applied these skills in GxE GWAS meta-analyses of developmental trajectories of internalizing disorders from the NIDA GEDI samples, also generating longitudinal, MBD-Seq whole methylome data on extreme depressive symptoms and controls.  
Role: PI
- 2009-2011                      1RC2MH089996                      Edwin van den Oord (PI)  
NIH/NIMH  
Whole genome profiling to detect schizophrenia methylation markers  
To identify methylation sites related to schizophrenia, we apply a novel statistical theory to determine the most cost-effective study design. Based on these optimal design calculations, we propose a whole genome methylation profiling study in 750 schizophrenia cases and 750 controls, followed by independent replication using pyrosequencing.  
Role: Co-I
- 2006-2007                      1F31MH079653                      Daniel E Adkins (PI)  
NIH/NIMH  
Gene-environment interaction in adolescent depression  
The goal of this project was to model the direct and interactive effects of environmental risk (childhood socio-economic status and stressful life events) and candidate genes (*SLC6A4*, *DRD4*, *DRD2*, *DAT1* and *MAOA*) on depression trajectories in adolescence and young adulthood.  
Role: PI

## PUBLICATIONS

H-index = 20 (<https://scholar.google.com/daniel.e.adkins>)

- 49     Elisabeth Conradt, K Lee Raby, **Daniel E Adkins**, Lisa M Diamond, Bruce J Ellis, Sheila E Crowell. (2017). "Stress and epigenetic mechanisms of adaptation in prenatal development." *Development and Psychopathology*, (Invited).
- 48     Robin Chan, Andrey Shabalin, Linying Xie, **Daniel Adkins**, Min Zhao, Gustavo Turecki, Shaunna Clark, Karolina Aberg, Edwin van den Oord. (2017). "Enrichment methods provide a feasible approach to comprehensive and adequately powered investigations of the brain methylome." *Nucleic Acids Research*, (In press).
- 47     Shaunna L Clark, **Daniel E Adkins**, Karolina A Aberg, Gaurav Kumar, Sri Nerella, Linying Xie, Ann L Collins, James J Crowley, Corey R Quakenbush,

- Christopher E Hillard, Guimin Gao, Andrey A Shabalin, Roseann E Peterson, William E Copeland, Judy L Silberg, Hermine Maes, Patrick F Sullivan, Elizabeth J Costello, Edwin J van den Oord. (2017). "Deep sequencing of 71 candidate genes to characterize variation associated with alcohol dependence." *Alcoholism: Clinical and Experimental Research*. (In press).
- 46 **Daniel E Adkins**, Kelli M Rasmussen, Anna R Docherty. (2017). "Social epigenetics and human behavior." *Oxford Handbook of Evolution, Biology & Society*, edited by Rosemary L Hopcroft. Oxford University Press. (In press).
- 45 Docherty, A. R., Bigdeli, T. B., Yang, Z., Edwards, A. C., Peterson, R., Sawyers, C., **Adkins, D. E.**, Moore, A. A., Webb, B. T., Bacanu, S. A., Flint, J., Kendler, K. S. (2017). "Age of onset and family history as indicators of polygenic risk for major depression." *Depression and Anxiety*, (In press).
- 44 **Daniel E Adkins**. (2017). "Machine learning and electronic health records: A paradigm shift." *American Journal of Psychiatry*, 174(2): 93-94.
- 43 Alexis Edwards, Jon Heron, Vladimir Vladimirov, Aaron Wolen, **Daniel E Adkins**, Fazil Aliev, Matthew Hickman, and Kenneth Kendler. (2017). "The rate of change in alcohol misuse across adolescence is heritable." *Alcoholism: Clinical and Experimental Research*, 41 (1), 57-64.
- 42 Anna R Docherty, Arden Moscati, Roseann Peterson, **Daniel E Adkins**, Alexis Edwards, Silviu Bacanu, T. Bernard Bigdeli, Bradley Webb, Jonathan Flint, and Kenneth Kendler. (2016). "SNP-based heritability estimates of the personality dimensions and polygenic prediction of both neuroticism and major depression: Findings from CONVERGE." *Translational Psychiatry*, 6(10), e926.
- 41 John Hettema, Takeshi Otowa, Karin Hek, Minyoung Lee, Enda Byrne, Saira Mirza, Michel Nivard, T Bigdeli, Steven Aggen, **Daniel E Adkins**, Aaron Wolen, Ayman Fanous, Matthew Keller, Enrique Castelao, Zoltan Kutalik, Sandra Van der Auwera, Georg Homuth, Matthias Nauck, Alexander Teumer, Jouke-Jan Hottenga, Nese Direk, Albert Hofman, André Uitterlinden, Cornelis Mulder, Anjali Henders, Sarah Medland, Scott Gordon, Andrew Heath, Pamela Madden, Michelle Pergadia, Peter van der Most, Ilja Nolte, Floor van Oort, Catharina Hartman, Albertine Oldehinkel, Martin Preisig, Hans Joergen Grabe, Christel Middeldorp, Brenda WJH Penninx, Dorret Boomsma, Nicholas Martin, Grant Montgomery, Brion Maher, Edwin van den Oord, Naomi Wray, and Henning Tiemeier. (2016). "Meta-analysis of genome-wide association studies of anxiety disorders." *Molecular Psychiatry*, 21(10):1391-9
- 40 Shaunna L Clark, Nathan A Gillespie, **Daniel E Adkins**, Kenneth S Kendler, Michael C Neale. (2016). "Psychometric modeling of abuse and dependence symptoms across six illicit substances indicates novel dimensions of misuse." *Addictive Behaviors*, 53(2): 132-140.

- 39 Stephanie M van Den Berg, Marleen HM de Moor, [...] **Daniel E Adkins**, [...] Nicholas G Martin, Dorret I Boomsma (Genetics of Personality Consortium). (2016). "Meta-analysis of genome-wide association studies for extraversion: findings from the Genetics of Personality Consortium." *Behavior Genetics*, 46(2): 170-182.
- 38 Shaunna L Clark, Joseph L McClay, **Daniel E Adkins**, Karolina A Aberg, Gaurav Kumar, Sri Nerella, Linying Xie, Ann L Collins, James J Crowley, Corey R Quackenbush, Christopher E Hillard, Guimin Gao, Andrey A Shabalina, Roseann E Peterson, William E Copeland, Judy L Silberg, Hermine Maes, Patrick F Sullivan, Elizabeth J Costello, Edwin J van den Oord. (2016). "Deep sequencing of three loci implicated in large-scale GWAS smoking meta-analyses." *Nicotine & Tobacco Research*, 18(5): 626-631.
- 37 Joseph L McClay, Andrey A Shabalina, Mikhail G Dozmorov, **Daniel E Adkins**, Gaurav Kumar, Srilaxmi Nerella, Shaunna L Clark, Sarah E Bergen, Christina M Hultman, Patrik KE Magnusson, Patrick F Sullivan, Karolina A Aberg, Edwin JCG van den Oord. (2015). "High density methylation QTL analysis in human blood via next-generation sequencing of the methylated genomic DNA fraction." *Genome Biology*, 16(291): 1-16.
- 36 **Daniel E Adkins**, Shaunna L Clark, William E Copeland, Martin Kennedy, Kevin Conway, Adrian Angold, Hermine Maes, Youfang Liu, Gaurav Kumar, Alaattin Erkanli, Ashwin A Patkar, Judy Silberg, Tyson H Brown, David M Fergusson, L John Horwood, Lindon Eaves, Edwin JCG van den Oord, Patrick F Sullivan, EJ Costello. (2015). "Genome-wide meta-analysis of longitudinal alcohol consumption across youth and early adulthood." *Twin Research and Human Genetics*, 18(4): 335-447.
- 35 Marleen HM De Moor, Stephanie M Van Den Berg, [...] **Daniel E Adkins**, [...] Brenda WJH Penninx, Nicholas G Martin, Dorret I Boomsma (Genetics of Personality Consortium). (2015). "Meta-analysis of genome-wide association studies for neuroticism, and the polygenic association with major depressive disorder." *JAMA Psychiatry*, 72(7): 642-650.
- 34 Gaurav Kumar, Shaunna L Clark, Joseph L McClay, Andrey A Shabalina, **Daniel E Adkins**, Linying Xie, Robin Chan, Srilaxmi Nerella, Yunjung Kim, Patrick F Sullivan, Christina M Hultman, Patrik KE Magnusson, Karolina A Aberg, Edwin JCG van den Oord. (2015). "Refinement of schizophrenia GWAS loci using methylome-wide association data." *Human Genetics*, 134(1): 77-87.
- 33 James J Crowley, Yunjung Kim, Alan B Lenarcic, Corey R Quackenbush, Cordelia J Barrick, **Daniel E Adkins**, Ginger S Shaw, Darla R Miller, Fernando Pardo-Manuel de Villena, Patrick F Sullivan, William Valdar. (2014). "Genetics of drug response in the diallel: Heritable architecture of adverse reactions to haloperidol in mouse." *Genetics*, 196(1): 321-347.

- 32 **Daniel E Adkins**, Joseph L McClay, Sarah A Vunck, Angela M Batman, Robert E Vann, Shaunna L Clark, Renan P Souza, James J Crowley, Patrick F Sullivan, Edwin JCG van den Oord, Patrick M Beardsley. (2013). "Behavioral metabolomics analysis identifies novel neurochemical signatures in methamphetamine sensitization." *Genes, Brain and Behavior*, 12(8): 780-791.
- 31 **Daniel E Adkins**, Renan Souza, Karolina Aberg, Shaunna L Clark, Joseph McClay, Patrick Sullivan, Edwin van den Oord. (2013). "Genotype-based ancestral dimensions consistently predicts efficacy and side effects across treatments in CATIE and STAR\*D." *PLoS ONE*, 8(2): e55239.
- 30 Shaunna L Clark, Renan Souza, **Daniel E Adkins**, Karolina Aberg, József Bukszár, Joseph McClay, Patrick Sullivan, Edwin van den Oord. (2013). "Genome-wide association study of patient and clinician rated Clinical Global Impression during antipsychotic treatment." *Pharmacogenetics and Genomics*, 23(2): 69-77.
- 29 EJ Costello, Lindon Eaves, Patrick Sullivan, Martin Kennedy, Kevin Conway, **Daniel E Adkins**, A Angold, Shaunna L Clark, Joseph L McClay, William Copeland, Hermine Maes, Youfang Liu, Ashwin A Patkar, Judy Silberg, Edwin van den Oord. (2013). "Genes, environments, and development: Methods for a multi-site study of early substance abuse." *Twin Research and Human Genetics*, 16(2): 505-515.
- 28 Joseph L McClay, **Daniel E Adkins**, Sarah A Vunck, Angela M Batman, Robert E Vann, Shaunna L Clark, Patrick M Beardsley, Edwin JCG van den Oord. (2013). "Large-scale neurochemical metabolomics analysis identifies multiple compounds associated with methamphetamine exposure." *Metabolomics*, 9(2): 392-402.
- 27 Karolina A Aberg, Joseph L McClay, Srilaxmi Nerella, Lin Y Xie, Shaunna L Clark, Alexandra D Hudson, Jozsef Bukszár, **Daniel Adkins**, Swedish Schizophrenia Consortium, Christina M Hultman, Patrick F Sullivan, Patrik KE Magnusson, Edwin JCG van den Oord. (2012). "MBD-seq as a cost-effective approach for methylome-wide association studies: Demonstration in 1500 case-control samples." *Epigenomics*, 4(6): 605-621.
- 26 Tyson H Brown, Angela O'Rand and **Daniel E Adkins**. (2012). "Race-ethnicity and health trajectories: Tests of three hypotheses across multiple groups and health outcomes." *Journal of Health and Social Behavior*, 53(3): 359-377.
- 25 **Daniel E Adkins**, Shaunna Clark, Karolina Aberg, John M Hettema, Joseph L McClay, Renan Souza, Edwin JCG van den Oord. (2012). "Genomewide association study of citalopram-induced adverse drug reactions in STAR\*D." *Translational Psychiatry*, 2(7): e129.
- 24 Sarah E Snider, Sarah A Vunck, Edwin JCG van den Oord, **Daniel E Adkins**, Joseph L McClay, Patrick M Beardsley. (2012). "The glial cell modulators, ibudilast and its amino analog, AV1013, attenuate methamphetamine locomotor activity and its sensitization in mice." *European Journal of Pharmacology*, 679(1-3): 75-80.

- 23 James J Crowley, Yunjung Kim, Jin Peng Szatkiewicz, Amanda L Pratt, Corey R Quackenbush, **Daniel E Adkins**, Edwin van den Oord, Molly A Bogue, Hyuna Yang, Wei Wang, David Threadgill, Fernando Pardo-Manuel de Villena, Howard L McLeod, Patrick F Sullivan. (2012). "Genome-wide association mapping of loci for antipsychotic-induced extrapyramidal symptoms in mice." *Mammalian Genome*, 23(5-6): 322-335.
- 22 **Daniel E Adkins**, Amit N Khachane, Joseph L McClay, Karolina Åberg, Jozsef Bukszár, Patrick F Sullivan, Edwin JCG van den Oord. (2012). "SNP-based analysis of neuroactive ligand-receptor interaction pathways implicates PGE2 as a novel mediator of antipsychotic treatment response: Data from the CATIE Study." *Schizophrenia Research*, 135(3): 200-201.
- 21 Shaunna Clark, **Daniel E Adkins**, Karolina Aberg, John M Hettema, Joseph L McClay, Renan Souza, Edwin JCG van den Oord. (2012). "Pharmacogenomic study of side effects for antidepressant treatment options in STAR\*D." *Psychological Medicine*, 42(6): 1151-1162.
- 20 **Daniel E Adkins**, Jonathan K Daw, Joseph L McClay, Edwin JCG van den Oord. (2012). "The influence of five monoamine genes on trajectories of depressive symptoms across adolescence and young adulthood." *Development and Psychopathology*, 24(1): 267-285.
- 19 James J Crowley, **Daniel E Adkins**, Amanda L Pratt, Corey R Quackenbush, EJ Van den Oord, Sheryl S Moy, Kirk C Wilhelmsen, Thomas B Cooper, Molly A Bogue, Howard L McLeod, Patrick F Sullivan. (2012). "Antipsychotic-induced vacuous chewing movements and extrapyramidal side-effects are highly heritable in mice." *Pharmacogenomics Journal*, 12(2): 147-155.
- 18 Karolina Aberg, **Daniel E Adkins** Youfang Liu , Joseph McClay, József Bukszár, Peilin Jia, Zhongming Zhao, Diana Perkins, Scott Stroup, Jeffrey A Lieberman, Patrick Sullivan, Edwin van den Oord. (2012). "Genome-wide association study of antipsychotic induced QTc interval prolongation." *Pharmacogenomics Journal*, 12(2): 165-172.
- 17 Shaunna L Clark, **Daniel E Adkins**, Edwin JCG van den Oord. (2011). "Analysis of efficacy and side effects in CATIE demonstrates drug response subgroups and potential for personalized medicine." *Schizophrenia Research*, 132(2-3): 114-120.
- 16 Naomi J Spence, **Daniel E Adkins**, Matthew E Dupre. (2011). "Racial differences in depression trajectories among older women: socioeconomic, family, and health influences." *Journal of Health and Social Behavior*, 52(4): 444-459.
- 15 Joseph L McClay, **Daniel E Adkins**, Karolina Aberg, Jozsef Bukszár, Richard S Keefe, Diana O Perkins, Joseph P McEvoy, Scott Stroup, Robert E Vann, Patrick M Beardsley, Jeffrey A Lieberman, Patrick F Sullivan, Edwin JCG van den Oord.

- (2011). "Genome-wide pharmacogenomic study of neurocognition as an indicator of antipsychotic treatment response in schizophrenia." *Neuropsychopharmacology*, 36(3): 616-626.
- 14 **Daniel E Adkins**, Karolina Aberg, Joseph McClay, József Bukszár, Zhongming Zhao, Peilin Jia, Scott Stroup, Diana Perkins, Joseph McEvoy, Jeffrey A Lieberman, Patrick Sullivan, Edwin van den Oord. (2011). "Genomewide pharmacogenomic study of metabolic side effects to antipsychotic drugs." *Molecular Psychiatry*, 16(3): 321-332.
- 13 Joseph L McClay, **Daniel E Adkins**, Karolina Aberg, Scott Stroup, Diana Perkins, Vladimir Vladimirov, Jeffrey A Lieberman, Patrick Sullivan, Edwin van den Oord. (2011). "Genome-wide pharmacogenomic analysis of response to treatment with antipsychotics." *Molecular Psychiatry*, 16(1): 76–85.
- 12 Joseph L McClay, **Daniel E Adkins**, Nancy Isern, Thomas M O'Connell, Jan B Wooten, Barbara K Zedler, Madhukar S Dasika, Bradley Todd Webb, Bobbie-Jo Webb-Robertson, Joel G Pounds, Edward L Murrelle, Mark F Leppert, Edwin JCG van den Oord. (2010). "<sup>1</sup>H nuclear magnetic resonance metabolomics analysis identifies novel urinary biomarkers for lung function." *Journal of Proteome Research*, 9(6): 3083–3090.
- 11 **Daniel E Adkins**, Karolina Aberg, Joseph L McClay, John M Hettema, Susan G Kornstein, Jozsef Bukszár, Edwin JCG van den Oord. (2010). "Genomewide association study of citalopram response in major depressive disorder—A psychometric approach." *Biological Psychiatry*, 68(6): e25-27.
- 10 Hailong Meng, Andrew Joyce, **Daniel E Adkins**, Priyadarshi Basu, Yankai Jia, Guoya Li, Tapas K Sengupta, Barbara K Zedler, Edward L Murrelle, Edwin van den Oord. (2010). "A statistical method for eliminating non-variable CpG sites in high-throughput DNA methylation profiling." *BMC Bioinformatics*, 11(227).
- 9 Karolina Åberg, **Daniel E Adkins**, Joseph L McClay, John M Hettema, Susan G Kornstein, József Bukszár, Edwin JCG van den Oord. (2010). "Genomewide association study of movement-related adverse drug effects in schizophrenic patients." *Biological Psychiatry*, 67(3): 279-282.
- 8 Glen Elder, Victor Wang, Naomi Spence, **Daniel E Adkins**, and Tyson Brown. (2010). "Pathways to the all-volunteer military and young men's life chances." *Social Science Quarterly*, 91(2): 455-475.
- 7 **Daniel E Adkins** and Stephen Vaisey. (2009). "Genome, structure and status: Toward a unified theory of stratification." *Sociological Theory*, 27(2): 99-121.
- 6 Edwin JCG van den Oord, **Daniel E Adkins**, Joseph McClay, Jeffrey Lieberman, Patrick F Sullivan. (2009). "Estimating individual differences in treatment response in the CATIE schizophrenia study." *Schizophrenia Research*, 107(1): 13-21.

- 5 **Daniel E Adkins**, Victor Wang, Matthew Dupre, Edwin JCG van den Oord and Glen Elder. (2009). "Structure and stress: Trajectories of depressive symptoms across adolescence and young adulthood." *Social Forces*, 88(1): 31-60.
- 4 Guang Guo and **Daniel E Adkins**. (2008). "How is a statistical link established between a human outcome and a genetic variant?" *Sociological Methods and Research*, 37(2): 201-226.
- 3 **Daniel E Adkins** and Guang Guo. (2008). "Societal development and the shifting influence of the genome on status attainment." *Research in Social Stratification and Mobility*, 26(3): 235-255.
- 2 Patricia Garrett-Peters, Roger Mills-Koonce, **Daniel Adkins**, Lynne Vernon-Feagans, Martha Cox and the Family Life Project Key Investigators. (2008). "Early environmental correlates of maternal emotion talk." *Parenting: Science and Practice*, 8(2): 117-152.
- 1 **Daniel E Adkins**, Victor Wang and Glen Elder. (2008). "Stress processes and trajectories of depressive symptoms in early life: Gendered development." *Advances in Life Course Research*, 11: 107-134.

## MANUSCRIPTS UNDER REVIEW

- **Daniel E Adkins**, Kyle Longest, Stephen Vaisey. "Physical attractiveness and trajectories of depressive symptoms across adolescence and young adulthood." Revise and resubmit at *Social Science Research*.
- **Daniel E Adkins**, Nisha C. Gottfredson, Lindon Eaves, Patrick Sullivan, Martin Kennedy, Kevin Conway, A Angold, Shaunna L Clark, Joseph L McClay, Hermine Maes, Youfang Liu, Ashwin A Patkar, Judy Silberg, Edwin van den Oord, EJ Costello, EJ William Copeland. "Environmental stressors and risk for alcohol problems: A longitudinal GxE GWAS meta-analysis of community samples." Revise and resubmit at *Journal of Child Psychology and Psychiatry*.
- Docherty, A. R., Moscati, A. (joint first authorship), Dick, D., Savage, J., Salvatore, J., Cooke, M., Edwards, A. C., **Adkins, D. E.**, Moore, A., Aliev, F., Webb, B. T., Bacanu, S. A. & Kendler, K. S. "A genome-wide polygenic atlas of the phenome in emerging adulthood." Under review at *Psychological Science*.
- Jessica N. Sanders, Jenny A. Higgins, **Daniel E. Adkins**, G. Stoddard, David K. Turok, Lori Gawron. "A longitudinal assessment of perceived impact of contraceptive intrauterine and implants on patient's sex lives and method continuation at one-year." Under review at *Human Reproduction*.

## WORKING PAPERS

- **Daniel E Adkins**, William E Copeland, Adrian Angold, Gaurav Kumar, Karolina A Aberg, Edwin JCG van den Oord, EJ Costello. "Longitudinal quasi-experiment



of the effect of poverty on the methylome, inflammation and subsequent health outcomes”

- **Daniel E Adkins**, Shaunna L Clark, William E Copeland, Adrian Angold, Gaurav Kumar, Karolina A Aberg, Edwin JCG van den Oord, EJ Costello. “Longitudinal methylomic study of female depression from childhood to young adulthood”
- **Daniel E Adkins** and Ayman Fanous. “Trajectories of metabolic side effects to antipsychotic treatments – Results from the VA medical records system.”
- Psychiatric Genetics Consortium - Substance Use Disorders Group, “Large-scale alcohol consumption gwas meta-analysis”
- **Daniel E Adkins**. “Inequality, epigenetics, and adaptation: A biological theory of social justice.”

## PRESENTATIONS

- |      |  |
|------|--|
| 2017 | “Social inequality, epigenetics, and adaptation.” Health, Society and Policy (HSP) Program Capstone, and Sociology Department, University of Utah  |
| 2015 | “Longitudinal study of the effect of childhood adversity on the methylome and subsequent depressed affect.” Invited presentation at University of Utah, Consortium for Families and Health Research  |
| 2015 | “Longitudinal methylomic study of female depression from childhood to young adulthood.” Invited presentation at Duke School of Medicine: Epigenomics of Maltreatment Conference  |
| 2015 | “Center for Biomarker Research and Precision Medicine: Research agenda and strategic priorities” Invited presentation at VCU School of Medicine.   |
| 2014 | “Deep sequencing of genes implicated in substance use disorder etiology” (with Shaunna Clark). Presented at Behavior Genetics Annual Meeting   |
| 2012 | “Results from the GEDI gene × development GWAS meta-analysis of alcohol consumption across adolescence and young adulthood.” Presented at NIDA Genetics Consortium Spring Meeting  |
| 2011 | “Measuring gene-environment interplay in the development of alcohol use: Preliminary results from GEDI.” Invited presentation, International Society for Research in Child and Adolescent Psychopathology (ISRCAP) Meeting: Innovative Translational Models in Developmental Psychopathology |
| 2011 | “Duke/VCU/Christchurch GEDI GWAS results: Genomic predictors of substance use development.” Presented at NIDA - Gene, Environment and Development Initiative (GEDI) Advisory Board Meeting   |
| 2010 | “Racial differences in depression trajectories among older women: The roles of socioeconomic status and family.” (with Naomi Spence). Presented at American Sociological Association Annual Meeting  |
| 2009 | “Modeling antipsychotic response for GWAS in the CATIE schizophrenia sample.” Invited presentation at the Virginia Institute of Psychiatric and Behavior Genetics, VCU   |
| 2009 | “Parenthood and trajectories of distress among women in later life: Race differences” (with Naomi Spence). Presented at the Population Association of America Annual Meeting   |

- 2008 "Military service as a bridge to opportunity" (with Victor Wang). Presented at the 2008 Society for Research on Adolescence Biennial Meeting
- 2008 "Stress processes and trajectories of depressive symptoms in early life: Gendered Development". Presented at the ASA Annual Meeting
- 2007 "Structure and stress: Trajectories of depressive symptoms across adolescence and young adulthood". Presented at the PAA Annual Meeting
- 2007 "Early maternal emotion talk: Contributions of income, ethnicity, and parenting quality." (with Patricia Garrett-Peters). Presented at the 2007 Society for Research in Child Development Biennial Meeting
- 2007 "Determinants of post-high school activities: Service in the U.S. volunteer armed forces." (with Glen Elder). Presented at the Service, Social (Dis)Advantage, and the Life Course Conference, Syracuse University
- 2005 "Toward a unified theory of stratification: Structure, genome, and status". Presented at the ASA Annual Meeting
- 2005 "The Role of Institutional Context in European Regional Fertility Profiles." Presented at the ASA Annual Meeting
- 2004 "Explaining differential fertility trajectories within Europe: The roles of policy, economic opportunity, and culture." Presented at the PAA Annual Meeting

## TEACHING EXPERIENCE

- 2017 Faculty Instructor, University of Utah, "Research Methods" (Undergraduate, Sociology)
- 2017 Faculty Instructor, University of Utah, "Statistics II" (Graduate, Sociology)
- 2016 Faculty Instructor, University of Utah, "Statistics I" (Graduate, Sociology)
- 2015 Faculty Instructor, VCU, "Statistics for Genetic Studies I" (Graduate, Genetics)
- 2012 Faculty Instructor, VCU, NIDA GEDI group "Workshop on GWAS methods in Plink and R"
- 2010 Faculty Co-Instructor, VCU, NIDA-sponsored "Advanced Genetic Epidemiology and Statistical Molecular Genetics Workshop"
- 2006 Graduate Instructor, UNC, "Sociological Perspectives"
- 2005 Teaching Assistant (to Kenneth Bollen and Patrick Curran), UNC, Inter-University Consortium for Political and Social Research (ICPSR), "Latent Trajectory Models"
- 2004 Teaching Assistant (to Kenneth Bollen), University of Michigan, ICPSR, "Introduction to Structural Equation Modeling"
- 2003 Teaching Assistant, UNC, "Introduction to Sociology"
- 2002 Teaching Assistant, UNC, "Sociology of Family"

## LANGUAGES AND ANALYTICAL SOFTWARE

- Scripting: R, bash, Python, Perl
- Statistics: R, Stata, Mplus, Python, SAS
- Bioinformatics: GATK, Minimac3, vcftools, samtools, Plink2, LDPred, Biomart, etc

## SERVICE

- 2016- Committee Member, Undergraduate quantitative methods certificate program development, CSBS, University of Utah
- 2016- Supervisor, Undergraduate tutoring program in Statistics and Research Methods, Utah Sociology
- 2016- Quantitative Methodologist, HER Salt Lake, School of Medicine, University of Utah
- 2016- Core Faculty, Developmental Adaptation, Stress and Health (DASH) Research Collaborative, College of Social and Behavioral Science, University of Utah (<http://dash.csbs.utah.edu/>)
- 2016- Statistical Consultant, Consortium for Families and Health Research, College of Social and Behavioral Science, University of Utah
- 2016- Graduate Committee Member, Utah Sociology
- 2015- Editorial Board Member, *Frontiers in Sociology*
- 2013- Steering Committee Member, Psychiatric Genomics Consortium – Substance Use Disorders Group
- 2013-2015 Member, Genetics of Personality Consortium
- 2012-2014 Steering Committee Member, Study of Addiction: Genetics and Environment (SAGE), Alcohol Meta-Analysis Consortium
- 2010 Shils-Coleman Award committee, American Sociological Association
- 2008-2009 Associate Editor, *Social Forces*
- 2006 Associate Editor, *Social Forces Special Issue on Biology and Sociology*

Reviewer: *American Journal of Sociology, American Sociological Review, Social Forces, Journal of Health and Social Behavior, Sociology of Education, Social Science Research, Frontiers in Sociology, Journal of Gerontology: Social Sciences, International Journal of Behavioral Development, Genes Brain and Behavior, Frontiers in Behavioral Neuroscience, PLoS Genetics, Pharmacogenetics and Genomics, American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, BMC Genomics, Journal of Proteomics, BMJ Open, PLoS ONE, Trends in Molecular Medicine, Progress in Neuro-Psychopharmacology and Biological Psychiatry, Schizophrenia Research, Depression and Anxiety, Translational Psychiatry, Archives of General Psychiatry, American Journal of Psychiatry, Molecular Psychiatry, JAMA Psychiatry*

## REFERENCES

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