

## Colter Mitchell

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### PROFESSIONAL POSITIONS

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- 2020-Present *Research Associate Professor*  
Survey Research Center, University of Michigan-Ann Arbor
- 2022-Present *Research Associate Professor*  
Population Studies Center, University of Michigan-Ann Arbor
- 2021-Present Adjunct Research Associate Professor  
Department of Sociology, University of Michigan-Ann Arbor
- 2020-Present *Director*  
Program in Population, Neurodevelopment and Genetics
- 2017-Present *Director*  
ISR Biospecimen Lab
- 2014-Present *Research Faculty*  
Bio-Social Methods Collaborative, University of Michigan-Ann Arbor
- 2014-Present *Research Faculty*  
Michigan Center on the Demography of Aging, University of Michigan
- 2012-2022 *Faculty Associate*  
Population Studies Center, University of Michigan-Ann Arbor
- 2015-2020 *Research Assistant Professor*  
Survey Research Center, University of Michigan-Ann Arbor
- 2012-2015 *Faculty Research Fellow*  
Survey Research Center, University of Michigan-Ann Arbor

### EDUCATION & TRAINING

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Postdoctoral Fellow	06/2012	Biodemography	Princeton University
Ph.D.	08/2009	Sociology	University of Michigan, Ann Arbor
M.A.	04/2007	Statistics	University of Michigan, Ann Arbor

## PEER REVIEWED ARTICLES

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\*Graduate Student/Postdoc first author, # senior author role, + shared first author

102. León, Inmaculada, Daylín Góngora, María José Rodrigo, Silvia Herrero-Roldán, Maykel López Rodríguez, **Colter Mitchell**, Jonah Fisher, and Yasser Iturria-Medina. "Maternal epigenetic index links early neglect to later neglectful care and other psychopathological, cognitive, and bonding effects." *Clinical epigenetics* 17, no. 1 (2025): 46.
101. \*Aikins, Muna, Yayouk Willems, Deniz Fraemke, **Colter Mitchell**, Bridget Goosby, and Laurel Raffington. "Linked emergence of racial disparities in mental health and epigenetic biological aging across childhood and adolescence." *Molecular Psychiatry* (2025): 1-11.
100. #Breinholt, Asta, Erin Ware, Paula Fomby, Daniel Notterman, Lisa Schneper, and **Colter Mitchell**. "Do Parents' Socioeconomic Resources Moderate the Association between Genotype and Cognitive Skills among Children with Diverse Genetic Ancestries?" (2025). *Longitudinal and Life Course Studies* (published online ahead of print 2025).
99. \*Laurent, Sarah E., Lorraine Halinka Malcoe, Linnea Laestadius, **Colter Mitchell**, Luke W. Hyde, Christopher S. Monk, and Helen CS Meier. "Historic Structural Racism and Perceived Stress in Adolescents." *Journal of Adolescent Health* (2025).
98. \*Lin, Lisha, Wei Zhao, Zheng Li, Scott M. Ratliff, Yi Zhe Wang, **Colter Mitchell**, Jessica D. Faul, Sharon LR Kardia, Kira S. Birditt, and Jennifer A. Smith. "Poly-epigenetic scores for cardiometabolic risk factors interact with demographic factors and health behaviors in older US Adults." *Epigenetics* 20, no. 1 (2025): 2469205.
97. Lussier, Alexandre A., Brooke J Smith, Jonah Fisher, Mannan Luo, Janine Cerutti, Lisa Schneper, Trey Smith, Charlotte AM Cecil, Janine F Felix, **Colter Mitchell**, Daniel A Notterman, Kerry J Ressler, Daniel J Schaid, Andrew J Simpkin, Matthew J Suderman, Esther Walton, Andrew DAC Smith, Erin C Dunn. 2024. DNA methylation mediates the link between adversity and depressive symptoms. *Nature Mental Health*, 2(12), pp.1476-1485.
96. \*#Hong, Sunghyun H., Felicia A. Hardi, Scott Tillem, Leigh G. Goetschius, Jeanne Brooks-Gunn, Vonnie McLoyd, Nestor L. Lopez-Duran, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. "Mother-Child Closeness and Adolescent Structural Neural Networks: A Prospective Longitudinal Study of Low-Income Families." *Social Cognitive and Affective Neuroscience* (2024): nsac083.
95. \*#Wu, Kefan C., Sunghyun Hong, Fernanda L. Cross, Isaiah Sypher, Vonnie C. McLoyd, Edward D. Huntley, Luke W. Hyde, **Colter Mitchell**, and Christopher S. Monk. "Increasing Diversity in Neuroimaging Research: Participant-Driven Recommendations from a Qualitative Study of an Under-represented Sample." *Developmental Cognitive Neuroscience* (2024): 101474.
94. \*#Hardi, Felicia A., Adriene M. Beltz, Vonnie McLoyd, Jeanne Brooks-Gunn, Edward Huntley, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. "Latent Profiles of Childhood Adversity, Adolescent Mental Health, and Neural Network Connectivity." *JAMA Network Open* 7, no. 8 (2024): e2430711-e2430711.
93. Gao, Yidian, Yidian Gao, Marlene Staginnus, Sophie Townend, Celso Arango,... **Colter Mitchell**, ... Graeme Fairchild, Stephane A De Brito (120 total authors). "Cortical structure

and subcortical volumes in conduct disorder: a coordinated analysis of 15 international cohorts from the ENIGMA-Antisocial Behavior Working Group." *The Lancet Psychiatry* 11, no. 8 (2024): 620-632.

92. \*#Chang, Olivia D., Helen CS Meier, Kathryn Maguire-Jack, Pamela Davis-Kean, and **Colter Mitchell**. "Childhood maltreatment and longitudinal epigenetic aging: NIMHD social epigenomics program." *JAMA network open* 7, no. 7 (2024): e2421877-e2421877.
91. \*#Moeckel, Camille, Lauren Gaydosh, Lisa Schneper, **Colter Mitchell**, and Daniel A. Notterman. "Material hardship and telomere length in children." *Child development* (2024).
90. Lussier, Alexandre, Natasha Wood, Jonah Fischer, Mannan Luo, Phillip Melton, Alexander Neumann, Johanna Tuhkanen, Erin Ware, Charlotte Cecil, Sarah Cohen-Woods, Janine Felix, Rae-Chi Huang, Marie-France Hivert, Kalsea Koss, Jari Lahti, Michael Meaney, Helen Meier, **Colter Mitchell**, Daniel Notterman, Kieran O'Donnell, Katri Räikkönen, Caroline Relton, Sara Sammallahti, Lisa Schneper, Kerry Ressler, Andrew Simpkin, Matthew Suderman, Esther Walton, Andrew Smith, Erin Dunn. "A Meta-Analysis of Sensitive Periods for the Effects of Childhood Adversity on DNA Methylation." *Biological Psychiatry* 95, no. 10 (2024): S61-S62.
89. \*Labaut, Lucía, Agustín Lage-Castellanos, María José Rodrigo, Silvia Herrero-Roldán, **Colter Mitchell**, Jonah Fisher, and Inmaculada León. 2024. "Mother Adversity and Co-Residence Time Impact Mother-Child Similarity in Genome-Wide and Gene-Specific Methylation Profiles." *Clinical Epigenetics*, 16 (1): 44.
88. \*Martz, Connor D., Aprile D. Benner, Bridget J. Goosby, **Colter Mitchell**, and Lauren Gaydosh. 2024. "Structural Racism in Primary Schools and Changes in Epigenetic Age Acceleration among Black and White Youth." *Social Science & Medicine*, 347: 116724.
87. \*#Michael, Cleanthis, Arianna M Gard, Scott Tillem, Felicia A Hardi, Erin C Dunn, Andrew DAC Smith, Vonnie C McLoyd, Jeanne Brooks-Gunn, **Colter Mitchell**, Christopher S Monk, Luke W Hyde "Developmental Timing of Associations Among Parenting, Brain Architecture, and Mental Health." *JAMA pediatrics* (2024).
86. \*Hardi, Felicia A., Melissa K. Peckins, **Colter Mitchell**, Vonnie McLoyd, Jeanne Brooks-Gunn, Luke W. Hyde, and Christopher S. Monk. "Childhood adversity and adolescent mental health: Examining cumulative and specificity effects across contexts and developmental timing." *Development and Psychopathology* (2024): 1-17.
85. \*Vazquez, Alexandra Y., S. Alexandra Burt, **Colter Mitchell**, Kelly L. Klump, Luke W. Hyde, and Shaunna L. Clark. "Methylome-wide association study of multidimensional resilience." *Development and Psychopathology* (2024): 1-12.
84. \*#Qian, Weiqiang, Chao Zhang, Hannah A. Piersiak, Kathryn L. Humphreys, and **Colter Mitchell**. "Biomarker adoption in developmental science: A data-driven modelling of trends from 90 biomarkers across 20 years." *Infant and child development* 33, no. 1 (2024): e2366.
83. \*#Guzman, Jose M., Montana H. Boone, Gabriela L. Suarez, **Colter Mitchell**, Christopher S. Monk, Luke W. Hyde, and Nestor L. Lopez-Duran. 2024. "Relationship between COVID-Related Stressors and Internalizing Symptoms: Gendered Neuroendocrine Risk Profiles." *Psychoneuroendocrinology*, 159: 106668.

82. \*Reiner, Allison, Kelly M. Bakulski, Jonah D. Fisher, John F. Dou, Lisa Schneper, **Colter Mitchell**, Daniel A. Notterman, Matthew Zawistowski, and Erin B. Ware. 2023. "Sex-Specific DNA Methylation in Saliva from the Multi-Ethnic Future of Families and Child Wellbeing Study." *Epigenetics*, 18 (1): 2222244.
81. \*Suarez, Gabriela L., Montana H. Boone, S.Alexandra Burt, Elizabeth A. Shewark, **Colter Mitchell**, Paula Guzman, Nestor L. Lopez-Duran, Kelly L. Klump, Christopher S. Monk, and Luke Hyde. 2023. Parent Mental Health Before and During the COVID-19 Pandemic. *Child Psychiatry Hum Dev*
80. #Raffington, Laurel, Lisa Schneper, Travis Mallard, Jonah Fisher, Liza Vinnik, Kelseanna Hollis-Hansen, Daniel A. Notterman, Elliot M. Tucker-Drob, **Colter Mitchell**, and K. Paige Harden. 2023. "Salivary Epigenetic Measures of Body Mass Index and Social Determinants of Health Across Childhood and Adolescence." *JAMA Pediatrics*, 177 (10) (2023): 1047–54.
79. \*#Goetschius, Leigh G., Vonnie C. McLoyd, Tyler C. Hein, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. "School connectedness as a protective factor against childhood exposure to violence and social deprivation: a longitudinal study of adaptive and maladaptive outcomes." *Development and psychopathology* 35, no. 3 (2023): 1219-1234.
78. Lussier, Alexandre A., Yiwen Zhu, Brooke J. Smith, Janine Cerutti, Jonah Fisher, Phillip E. Melton, Natasha M. Wood, Sarah Cohen-Woods, Rae-Chi Huang, **Colter Mitchell**, Lisa Schneper, Daniel A. Notterman, Andrew J. Simpkin, Andrew D. A. C. Smith, Matthew J. Suderman, Esther Walton, Caroline L. Relton, Kerry J. Ressler, and Erin C. Dunn. 2023. "Association between the Timing of Childhood Adversity and Epigenetic Patterns across Childhood and Adolescence: Findings from the Avon Longitudinal Study of Parents and Children (ALSPAC) Prospective Cohort." *The Lancet. Child & Adolescent Health*, 7 (8): 532–43.
77. Meier, Helen C. S., **Colter Mitchell**, Thomas Karadimas, and Jessica D. Faul. Advance online publication. 2023 "Systemic Inflammation and Biological Aging in the Health and Retirement Study." *GeroScience* 45(6):3257-3265
76. Dunn, Erin, Daniel S. Busso, Kathryn A. Davis, Andrew D.A.C. Smith, **Colter Mitchell**, Henning Tiemeier, and Ezra S. Susser. 2023. "Sensitive Periods for the Effect of Child Maltreatment on Psychopathology Symptoms in Adolescence." *Complex Psychiatry*, 9 (1-4): 145:153.
75. \*#Hardi, Felicia A., Leigh G. Goetschius, Scott Tillem, Vonnie McLoyd, Jeanne Brooks-Gunn, Montana Boone, Nestor Lopez-Duran, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. "Early childhood household instability, adolescent structural neural network architecture, and young adulthood depression: a 21-year longitudinal study." *Developmental Cognitive Neuroscience* (2023): 101253.
74. #Gard, Arianna M., Luke W. Hyde, Steven G. Heeringa, Brady T. West, and **Colter Mitchell**. "Why weight? Analytic approaches for large-scale population neuroscience data." *Developmental Cognitive Neuroscience* (2023): 101196.
73. #Tillem, Scott, Hailey L. Dotterer, Leigh G. Goetschius, Nestor Lopez-Duran, **Colter Mitchell**, Christopher S. Monk, and Luke W. Hyde. "Antisocial behavior is associated with reduced frontoparietal network efficiency in youth." *Social Cognitive and Affective Neuroscience* (2023)

72. Patrick, Megan E., Michael J. Parks, Dana Mowls Carroll, and **Colter Mitchell**. "Feasibility of mailed biomarker data collection among US young adults: Saliva-based cotinine and self-reported nicotine use." *Drug and alcohol dependence* 244 (2023): 109791.
71. \*Hardi, Felicia A., Leigh G. Goetschius, Vonnie McLoyd, Nestor L. Lopez-Duran, **Colter Mitchell**, Luke W. Hyde, Adriene M. Beltz, and Christopher S. Monk. "Adolescent functional network connectivity prospectively predicts adult anxiety symptoms related to perceived COVID-19 economic adversity." *Journal of Child Psychology and Psychiatry* (2023).
70. Gard, Arianna M., Tyler C. Hein, **Colter Mitchell**, Jeanne Brooks-Gunn, Sarah S. McLanahan, Christopher S. Monk, and Luke W. Hyde. "Prospective longitudinal associations between harsh parenting and corticolimbic function during adolescence." *Development and psychopathology* 34, no. 3 (2022): 981-996.
69. #Gard, Arianna M., Jeanne Brooks-Gunn, Sara S. McLanahan, **Colter Mitchell**, Christopher S. Monk, and Luke W. Hyde. "Deadly gun violence, neighborhood collective efficacy, and adolescent neurobehavioral outcomes." *PNAS nexus* 1, no. 3 (2022): pgac061.
68. \*#Blostein, Freida A., Jonah Fisher, John Dou, Lisa Schneper, Erin B. Ware, Daniel A. Notterman, **Colter Mitchell**, and Kelly M. Bakulski. "Polymethylation scores for prenatal maternal smoke exposure persist until age 15 and are detected in saliva in the Fragile Families and Child Wellbeing cohort." *Epigenetics* (2022): 1-18.
67. \*#Calabrese, Julianna R., Leigh G. Goetschius, Laura Murray, Megan R. Kaplan, Nestor Lopez-Duran, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. 2022. "Mapping Frontostriatal White Matter Tracts and Their Association with Reward-Related Ventral Striatum Activation in Adolescence." *Brain Research* 1780, 147803
66. Joyce, Brian T., Tao Gao, Kalsea Koss, Yinan Zheng, Andres Cardenas, Jonathan Heiss, Allan Just, Kai Zhang, Linda van Horn, Norrina Bai Allen, Philip Greenland, Sheldon Cohen, Penny Gordon-Larsen, **Colter Mitchell**, Sara McLanahan, Lisa Schneper, Daniel Notterman, Sheryl L Rifas-Shiman, Emily Oken, Marie-France Hivert, Robert Wright, Andrea Baccarelli, Donald Lloyd-Jones, Lifang Hou. 2022. "Impact of paternal education on epigenetic ageing in adolescence and mid-adulthood: a multi-cohort study in the USA and Mexico." *International Journal of Epidemiology*, 51(3), pp.870-884.
65. Del Toro, Juan, Adam Fine, Ming-Te Wang, Alvin Thomas, Lisa M. Schneper, **Colter Mitchell**, Ronald B. Mincy, Sara McLanahan, and Daniel A. Notterman. 2022. "The Longitudinal Associations Between Paternal Incarceration and Family Well-Being: Implications for Ethnic/Racial Disparities in Health." *Journal of the American Academy of Child & Adolescent Psychiatry* 61 (3): 423–33.
64. \*#Middleton, L.Y., Dou, J., Fisher, J., Heiss, J.A., Nguyen, V.K., Just, A.C., Faul, J., Ware, E.B., **Mitchell, C.**, Colacino, J.A. and M. Bakulski, K., 2022. Saliva cell type DNA methylation reference panel for epidemiological studies in children. *Epigenetics*, 17(2), 161-177.
63. Doom, Jenalee R., Melissa K. Peckins, Tyler C. Hein, Hailey L. Dotterer, **Colter Mitchell**, Nestor L. Lopez-Duran, Jeanne Brooks-Gunn, Sara McLanahan, Luke W Hyde, James L Abelson, Christopher S Monk. 2022. "Differential Associations of Parental Harshness and

- Parental Disengagement with Overall Cortisol Output at 15 Years: Implications for Adolescent Mental Health.” *Development and Psychopathology* 34 (1): 129–146.
62. Faul, Jessica D., Minjung Kho, Wei Zhao, Kalee E. Rumfelt, Miao Yu, **Colter Mitchell**, and Jennifer A. Smith. 2022. "Trans-ethnic Meta-analysis of Interactions between Genetics and Early Life Socioeconomic Context on Memory Performance and Decline in Older Americans." *The Journals of Gerontology: Series A*. Aug 27;glab255. doi: 10.1093/gerona/glab255
  61. #\*Hardi, Felicia A., Leigh G. Goetschius, Melissa K. Peckins, Jeanne Brooks-Gunn, Sara S. McLanahan, Vonnie McLoyd, Nestor L. Lopez-Duran, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. 2021. “Differential Developmental Associations of Material Hardship Exposure and Adolescent Amygdala–Prefrontal Cortex White Matter Connectivity.” *Journal of Cognitive Neuroscience*, 1–26.
  60. Geronimus, Arline T., John Bound, **Colter Mitchell**, Aresha Martinez-Cardoso, Linnea Evans, Landon Hughes, Lisa Schneper, and Daniel A. Notterman. 2021. "Coming up short: Comparing venous blood, dried blood spots & saliva samples for measuring telomere length in health equity research." *Plos one* 16, no. 8: e0255237.
  59. \*#Herrero-Roldán, Silvia, María José Rodrigo, Juan A. Hernández-Cabrera, Maykel López, Julia Alcoba-Florez, Jonah Fisher, Fernanda Espinosa, **Colter Mitchell**, and Inmaculada León. 2021. “Reduction in Epigenetic Age Acceleration Is Related to Empathy in Mothers with Neglectful Caregiving.” *Brain Sciences* 11 (11), 1376.
  58. #Bakulski, Kelly M., Jonah D. Fisher, John F. Dou, Arianna Gard, Lisa Schneper, Daniel A. Notterman, Erin B. Ware, and **Colter Mitchell**. 2021. “Prenatal Particulate Matter Exposure Is Associated with Childhood Saliva DNA Methylation.” *Toxics* 9 (10), 262.
  57. Gaydosh, Lauren, Colter Mitchell, Daniel Notterman, Lisa Schneper, Jeanne Brooks-Gunn, Brandon Wagner, Kalsea Koss, and Sara McLanahan. 2021. “Demographic and Developmental Patterns in Telomere Length across Adolescence.” *Biodemography and Social Biology*, October, 1–12.
  56. Walker, Toni M., Paul J. Frick, Tatiana M. Matlasz, Emily L. Robertson, Amy J. Mikolajewski, Colter Mitchell, Nestor Lopez-Duran, Christopher Monk, and Luke W. Hyde. "Psychometric properties of a semistructured interview to assess limited prosocial emotions." *Assessment* 28, no. 7 (2021): 1755-1764.
  55. \*# Gard, Arianna M., Erin B. Ware, Luke W. Hyde, Lauren L. Schmitz, Jessica Faul, and **Colter Mitchell**. "Phenotypic and genetic markers of psychopathology in a population-based sample of older adults." *Translational psychiatry* 11, no. 1 (2021): 1-13.
  54. Allendorf, Keera, Arland Thornton, Dirgha Ghimire, Linda Young-Demarco, **Colter Mitchell**. 2021. “A good age to marry? An intergenerational model of the influences of timing attitudes on entrance into marriage.” *European Journal of Population* 37, no. 1 (Mar 2021): 179-209.
  53. Bakulski, Kelly M., Harita S. Vadari, Jessica D. Faul, Steven G. Heeringa, Sharon L.R. Kardia, Kenneth M. Langa, Jennifer A. Smith, Jenfer Manly, **Colter Mitchell** and Erin Ware. 2021. "Cumulative Genetic Risk and Apoe E4 Are Independently Associated with Dementia Status in a Multiethnic, Population-Based Cohort." *Neurology Genetics* 7, e576.

52. Demange, Perline A., Margherita Malanchini, Travis T. Mallard, Pietro Biroli, Simon R. Cox, Andrew D. Grotzinger, Elliot M. Tucker-Drob, ... **Colter Mitchell**, ... & Michel Nivard. 2021. "Investigating the Genetic Architecture of Noncognitive Skills Using Gwas-by-Subtraction." *Nature Genetics* 53, 35-44.
51. Gard, Arianna M., Andrea M. Maxwell, Daniel S. Shaw, **Colter Mitchell**, Jeanne Brooks-Gunn, Sara S. McLanahan, Erika E. Forbes, Christopher S. Monk, and Luke W. Hyde. "Beyond Family-Level Adversities: Exploring the Developmental Timing of Neighborhood Disadvantage Effects on the Brain." *Developmental Science* 24, no. 1 (2021): e12985.
50. Smith, Jennifer A., Minjung Kho, Wei Zhao, Miao Yu, **Colter Mitchell**, & Jessica D. Faul. 2021. "Genetic Effects and Gene-by-Education Interactions on Episodic Memory Performance and Decline in an Aging Population." *Social Science & Medicine* 271, 112039
49. Hyde, Luke W., Arianna M. Gard, Rachel C. Tomlinson, S. Alexandra Burt, **Colter Mitchell**, and Christopher S. Monk. "An ecological approach to understanding the developing brain: Examples linking poverty, parenting, neighborhoods, and the brain." *American Psychologist* 75, no. 9 (2020): 1245.
48. #Dotterer, Hailey, Rebecca Waller, Tyler Hein, Alicia Pardon, **Colter Mitchell**, Nestor Lopez-Duran, Christopher Monk, Luke Hyde. 2020. "Clarifying the link between amygdala functioning during emotion processing and antisocial behaviors versus callous-unemotional traits within a population-based community sample." *Clinical Psychological Science*.
47. \*#Gard, Arianna, Vonnie McLoyd, **Colter Mitchell**, and Luke Hyde. 2020. "Evaluation of a longitudinal family stress model in a population-based cohort." *Social Development*, 29(4), 1155-1175.
46. \*Murray, Laura, Nestor L. Lopez-Duran, **Colter Mitchell**, Christopher S. Monk, and Luke W. Hyde. 2020. "Neural mechanisms of reward and loss processing in a low-income sample of at-risk adolescents." *Social cognitive and affective neuroscience* 15 (12): 1299-1314.
45. \*#Goetschius, Leigh, Tyler Hein , Sara McLanahan , J Brooks-Gunn , Vonnie McLoyd , Hailey Dotterer , Nestor Lopez-Duran , **Colter Mitchell** , Luke Hyde , Christopher Monk, Adriene Beltz. 2020. Childhood violence exposure predicts adolescent neural network sparsity *JAMA Network Open* 3(9), e2017850-e2017850
44. \*Goetschius, Leigh G. , Tyler C. Hein, **Colter Mitchell**, Nestor L. Lopez-Duran , Vonnie C. McLoyd, Jeanne Brooks-Gunn, Sara S. McLanahan, Luke W. Hyde, Christopher S. Monk. 2020. "Childhood violence exposure and social deprivation predict adolescent amygdala-orbitofrontal cortex white matter connectivity." *Developmental Cognitive Neuroscience* 45, 100849
43. \*#Dotterer, Hailey, Waller, R., Hein, T.C., Pardon, A. **Mitchell, C.**, Lopez-Duran, N.L., Monk, C.S., and Hyde, L. 2020. "Clarifying the link between amygdala functioning during emotion processing and antisocial behaviors versus callous-unemotional traits within a population-based community sample." *Clinical Psychology Science* 8(5), 918-935
42. #Koss, Kalsea, Daniel Notterman, Jeanne Brooks-Gunn, Sara McLanahan, and **Colter Mitchell** 2020. "Early Puberty and Telomere Length in Preadolescent Girls and Mothers" *The Journal of Pediatrics*, 222, 193-199.

41. \*#Hein, Tyler C., Leigh G. Goetschius , Vonnie C. McLoyd , Jeanne Brooks-Gunn, Sara S. McLanahan, **Colter Mitchell**, Nestor L. Lopez-Duran , Luke W. Hyde, Christopher S. Monk 2020. "Childhood Violence Exposure and Social Deprivation are Associated with Adolescent Threat and Reward Neural Function." *Journal of Child Psychology and Psychiatry*, 15(11), 1252-1259.
40. \*Jenalee R. Doom, Melissa K. Peckins, Tyler C. Hein , Hailey Dotterer, **Colter Mitchell**, Nestor L. Lopez-Duran, Jeanne Brooks-Gunn, Sara McLanahan, Luke W. Hyde, James L. Abelson, Christopher S. Monk. 2020. "Differential Associations of Abuse and Neglect with Overall Cortisol Output at 15 Years: Implications for Adolescent Mental Health." *Development and Psychopathology*, 1-18.
39. \*#Rentscher, Kelly, Judith Carroll, and **Colter Mitchell**. 2020. "Social and Psychological Influences on Telomere Length" *Annual Review of Public Health* 41.
38. \*Jimenez, Manuel E., Nancy E. Reichman, **Colter Mitchell**, Lisa Schneper, Sara McLanahan, Daniel A. Notterman. 2020. "Shared reading at age 1 and later vocabulary: A gene-environment study." *Journal of Pediatrics* 216 :189-196.
37. Allendorf, Keera, Arland Thornton, Linda Young DeMarco, and **Colter Mitchell** "The Influence of Developmental Idealism on Marital Attitudes, Expectations, and Timing" 2019. *Journal of Family Issues* 40: 2359-2388.
36. \*#Goetschius, Leigh G., Tyler C. Hein, Whitney I. Mattson, Nestor Lopez-Duran, Hailey L. Dotterer, Robert C. Welsh, **Colter Mitchell**, Luke W. Hyde, and Christopher S. Monk. "Amygdala-prefrontal cortex white matter tracts are widespread, variable and implicated in amygdala modulation in adolescents." *NeuroImage* 191 (2019): 278-291.
35. \*#Waller, Rebecca, Arianna M. Gard, Christopher. S. Monk, **Colter Mitchell**, Benjamin Bazzi, I. Sypher, Jeanne Brooks-Gunn, Sara. McLanahan, and Luke. W. Hyde. (2019). "The System for Coding Interactions and Family Functioning (SCIFF) in low-income and urban adolescents." *Psychological assessment* April 18, 2019.
34. \*#Peckins, Melissa, Andrea Roberts, Tyler Hein, **Colter Mitchell**, Christopher Monk, Luke Hyde, and Nestor Lopez-Duran. "Early stress, deprivation, and threat as predictors of cortisol, (2019) DHEA, and cortisol/DHEA ratios in adolescence." *Psychoneuroendocrinology* 100: 104426. Sept 4, 2019
33. \*#Roberts, Andrea, Melissa Peckins, Tyler Hein, **Colter Mitchell**, Christopher Monk, Luke Hyde, and Nestor Lopez-Duran. (2019) "DHEA/Cortisol Ratios moderate the association between negative life events and internalizing psychopathology in adolescence." *Psychoneuroendocrinology* 100:1.
32. \*Hein, Tyler C. Whitney I Mattson, Hailey L. Dotterer, **Colter Mitchell**, Nestor Lopez-Duran, Moriah Thomason, Scott J Peltier, Robert C. Welsh, Luke W. Hyde, and Christopher S. Monk. (2018). "Amygdala habituation and uncinated fasciculus connectivity in adolescence: A multi-modal approach." *NeuroImage* 183: 617-626.
31. Goosby, Bridget J., Jacob E. Cheadle, & **Colter Mitchell**. 2018. Stress-related biosocial mechanisms of discrimination and African American health inequalities. *Annual Review of Sociology* 44:319-340

30. Lewandowski-Romps, Lisa, Heather M. Schroeder, Patricia A. Berglund, Lisa J. Colpe, Kenneth Cox, Keith Hauret, Jeffrey D. Hay, Bruce Jones, Roderick J.A. Little, **Colter Mitchell**, Michael Schoenbaum, Paul Schulz, Murray B. Stein, Robert J. Ursano. (2018). Medical-encounter mental health diagnoses, non-fatal injury and polypharmacy indicators of risk for accident death in the US Army enlisted soldiers, 2004–2009. *Preventive Medicine* 111: 299-306.
29. \*Brown, Lauren, Yuan S. Zhang **Colter Mitchell**, and Jennifer Ailshire. 2018. Does Telomere Length Indicate Biological, Physical and Cognitive Health Among Older Adults? Evidence from the Health and Retirement Study *Journals of Gerontology: Series A*.
28. \*Kuckertz, Jennie, **Colter Mitchell**, and Jillian Wiggins. 2018. Parenting Mediates the Impact of Maternal Depression on Child Internalizing Symptoms *Depression and Anxiety* , 35(1), 89-97.
27. Massey, Douglas, Brandon Wager, Sara McLanhan, Jeanne Brooks Gunn, **Colter Mitchell**, and Daniel Notterman. 2018. “Neighborhood Disadvantage and Telomere Length: Results from the Fragile Families and Child Wellbeing Study.” *RSF: The Russell Sage Foundation Journal of the Social Sciences*
26. Needham, Belinda, Ishtar Govina, Margaret Hicken, Cleopatra A. Kamperveen, and **Colter Mitchell**. 2018. Maternal Social Disadvantage and Newborn Telomere Length in Archived Dried Blood Spots from the Michigan Neonatal Biobank . *Biodemography and Social Biology* 63(3), pp.221-235.
25. \*#James, Sarah, Sara McLanahan, Jeanne Brooks-Gunn, Lisa Schneper, Brandon Wagner, **Colter Mitchell**, and Daniel Notterman. 2017. Sleep Duration and Telomere Length in Children in the United States. *The Journal of Pediatrics* 187, 247-252.
24. Allendorf, Keera, Arland Thornton, Dirgha Ghirmire, Linda Young DeMarco, and **Colter Mitchell**. 2017. Early Women, Late Men: Timing Attitudes and Gender Differences in Marriage *Journal of Marriage and Family* 79(5), 1478-1496.
23. Stein, Murray B, Erin B. Ware, **Colter Mitchell**, Chia-Yen Chen, Susan Borja, Tianxi Chai, Catherine Dempsey, Carol Fullerton, Joel Gelernter, Steven Heeringa, Sonia Jain, Ronal Kessler James Naifeh, Mathew Nock, Stephan Ripke, Xiaoying Sun, Jean Beckman, Nathan Kimbrel, VA MIRECC, Robert Ursano and Jordan Smoller. Forthcoming. Genomewide association studies of suicide attempts in US soldiers *American Journal of Medical Genetics* epub 13 September 2017.
22. **Mitchell, Colter**, Sara McLanahan, Jeanne Brooks-Gunn, Lisa Schneper, Irv Garfinkel, and Daniel Notterman. 2017. Father Loss and Child Telomere Length. *Pediatrics* 140:2 (epub e20163245).
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- with a Common Multi-Site Analysis Pipeline" *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics* 174(6): 619-630.
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  19. Trentacosta, Christopher J., Pamela Davis-Kean, **Colter Mitchell**, Luke Hyde, & Dana Dolinoy. 2016. Environmental Contaminants and Child Development. *Child Development Perspectives* 10(4): 228-233.
  18. Faul, Jessica, **Colter Mitchell**, Jennifer Smith, & Wei Zhao. 2016. "Estimating Telomere Length Heritability in an Unrelated Sample of Adults - Is Heritability of Telomere Length Modified by Lifecourse Socioeconomic Status?" *Biodemography and Social Biology* 62(1):72-86. PMC5117361.
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  16. **Mitchell, Colter**, Lisa M. Schneper, and Daniel Notterman. 2016. "DNA Methylation, Early Life Environment, and Health Outcomes." *Pediatric Research* 79: 212-219 PMC4798238.
  15. Notterman, Daniel, and **Colter Mitchell**. 2015. "Epigenetics and Understanding the Impact of Social Determinants of Health." *Pediatric Clinics of North America* 62(5): 1227-1240 PMID: 4555996
  14. **Mitchell, Colter**, Sara McLanahan, John Hobcraft, Jeanne Brooks-Gunn, Irwin Garfinkel, and Daniel Notterman. 2015. "Family structure instability, gene instability, and children's well-being." *American Journal of Sociology* 120(3): 1195-1225.
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  10. **Mitchell, Colter**, John Hobcraft, Sara McLanahan, Susan R. Siegel, Arthur Berg, Jeanne Brooks-Gunn, Irwin Garfinkel, and Daniel Notterman. 2014. "Social disadvantage, genetic

sensitivity, and children's telomere length." *Proceedings of the National Academy of Sciences* 111(16): 5944-5949.

9. <sup>†</sup>Falk, Emily B., Luke W. Hyde, **Colter Mitchell**, Jessica Faul, Richard Gonzalez, Mary Heitzeg, Daniel P. Keating, Kenneth M. Langa, Meghan E. Martz, Julie Maslowsky, Frederick J. Morrison, Douglas C. Noll, Megan E. Patrick, Fabian T. Pfeffer, Patricia A. Reuter-Lorenz, Moriah E. Thomason, Pamela Davis-Kean<sup>2</sup>, Christopher S. Monk<sup>2</sup>, and John Schulenberg<sup>2</sup>. 2013. "What is a representative brain? Neuroscience meets population science." *Proceedings of the National Academy of Sciences* 110(44):1615-22. PMID: 24151336
8. **Mitchell, Colter**, Sara McLanahan, Jeanne Brooks-Gunn, Irwin Garfinkel, John Hobcraft, and Daniel Notterman "Genetic Sensitivity to Social Environments: Implications for Research" 2013. *American Journal of Public Health* 103(S1): S102-S110. PMID: 23927507
7. Thornton, Arland, Dirgha J. Ghimire, and **Colter Mitchell**. 2012. "The Measurement and Prevalence of Developmental Thinking about the Family: Evidence from Nepal." 2012. *Population Studies: A Journal of Demography* 66(3): 329-345. PMID: 22963536
6. Thornton, A, G. Binstock, M. Abbasi-Shavazi, D. Ghimire, A. Gjonca, A. Melegh, **C. Mitchell**, M. Moaddel, Y. Xie, L. Yang, L. Young-DeMarco and K. Yount. 2012. "Knowledge and Beliefs about National Development and Developmental Hierarchies: the Viewpoints of Ordinary People in Thirteen Countries." *Social Science Research* 41: 1053-1068 PMID: 23017917
5. Heaton, Tim B. and **Colter Mitchell**. 2012. "Changing Intergroup Boundaries in Intermarriage in Brazil: 1991-2008." *Journal of Comparative Family Studies* 43:461-482. PMID: 24031100
4. **Mitchell, Colter**, Daniel Notterman, Jeanne Brooks-Gunn, Iulia Kotenko, Kate Jaeger, John Hobcraft, Irwin Garfinkel, and Sara McLanahan. 2011. "The Role of Mother's Genes and Environment on Postpartum Depression." *Proceedings of the National Academy of Sciences* 108(20): 8189-8193. PMID: 21576482
3. **Mitchell, Colter**, Xuaning Fu, Tim B. Heaton, and Cardell K. Jacobson. 2010. "Urbanization, Education and Racial Intermarriage in Brazil" *International Journal of Contemporary Sociology* 47(2): 273-294. PMID: 24052666
2. **Mitchell, Colter**. 2010. "Are Divorce Studies Trustworthy? The Effects of Survey Nonresponse and Response Errors" *Journal of Marriage and Family* 72(4): 893-904. PMID: 22485054
1. Bahr, Howard M., **Colter Mitchell**, Xiaomin Li, Alison Walker, and Kristen Sucher. 2004. "Trends in Family Time/ Space, Conflict and Solidarity: Middletown: 1924-1999." *City and Community* 3(3): 263-291.

## BOOK CHAPTERS, BOOK REVIEWS, AND OTHER PUBLICATIONS

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Aikins, Muna, Yayouk Willems, **Colter Mitchell**, Bridget Goosby, and Laurel Raffington. "Linked emergence of racial disparities in mental health and epigenetic biological aging across childhood and adolescence." *bioRxiv* (2024).

Meier, Helen CS, Eric Klopach, Mateo P. Farina, Belinda Hernandez, **Colter Mitchell**, Jessica D. Faul, Cathal McCrory, Rose Anne Kenny, and Eileen M. Crimmins. "A novel DNA methylation-based surrogate biomarker for chronic systemic inflammation (InfLaMeS): results from the Health and Retirement Study." *medRxiv* (2024): 2024-10.

Gard, Arianna Morgan Sandmark, Deena Shariq, Alison Albrecht, Alaina Lurie, Hyung Cho Kim, **Colter Mitchell**, and Luke W. Hyde. "Current Reporting Practices in Human Neuroscience Research." *bioRxiv* (2024): 2024-09.

Schuurmans, Isabel K., Rosa H Mulder, Vilte Baltramonaityte, Alexandra Lahtinen, Fan Qiuyu, Leonardo Melo Rothmann, Marlene Staginnus, Jetro Tuulari, S Alexandra Burt, Claudia Buss, Jeffrey M Craig, Kirsten A Donald, Janine F Felix, Tom P Freeman, Rodrigo G Oliveira, Anke Huels, Luke W Hyde, Scott A Jones, Hasse Karlsson, Linnea Karlsson, Nastassja Koen, Will Lawn, **Colter Mitchell**, Christopher S Monk, Michael A Mooney, Ryan Muetzel, Joel T Nigg, Sintia Belangero, Daniel Notterman, Tom O'Connor, Kieran J O'Donnell, Pedro Pan, Tiina Paunio, Peter Ryabinin, Richard Saffery, Giovanni Salum, Marc Seal, Tim J Silk, Dan J Stein, Heather Zar, Esther Walton, Charlotte AM Cecil"Consortium Profile: The Methylation, Imaging and NeuroDevelopment (MIND) Consortium." *medRxiv* (2024): 2024-06.

Reiner, Allison, Kelly M. Bakulski, Jonah D. Fisher, John F. Dou, Lisa Schneper, **Colter Mitchell**, Daniel Notterman, Matthew Zawistowski, and Erin Bakshis Ware. "Sex-specific DNA methylation in saliva from the multi-ethnic Fragile Families and Child Wellbeing Study." *medRxiv* (2022).

De Vito, Roberta, Isabella N. Grabski, Derek Aguiar, Lisa M. Schneper, Archit Verma, Juan Castillo Fernandez, **Colter Mitchell**, *et al.* 2021. "Differentially Methylated Regions and Methylation Qtls for Teen Depression and Early Puberty in the Fragile Families Child Wellbeing Study." *bioRxiv*. 2021.05.20.444959.

Blostein, Freida A., Jonah Fisher, John Dou, Lisa Schneper, Erin B. Ware, Daniel A. Notterman, **Colter Mitchell**, and Kelly M. Bakulski. "Polymethylation Scores for Prenatal Maternal Smoke Exposure Persist Until Age 15 and Are Detected in Saliva in the Fragile Families and Child Wellbeing Cohort." *medRxiv* (2022): 2021-11.

Gard, Arianna M., Jeanne Brooks-Gunn, Sara McLanahan, **Colter Mitchell**, Christopher Monk, & Luke W. Hyde. 2021. "Deadly Gun Violence, Neighborhood Collective Efficacy, and Adolescent Neurobehavioral Outcomes." *PsyArXiv*.

Murray, Laura, Nestor Lopez-Duran, **Colter Mitchell**, Christopher S. Monk, & Luke W. Hyde. 2021. "Antisocial Behavior Is Associated with Reduced Frontoparietal Activity to Loss in a Population-Based Sample of Adolescents." *PsyArXiv*.

Fisher, Jonah, Helen Meier, Jessica Faul, **Colter Mitchell**, Eileen Crimmins, and Bharat Thyagarajan. 2021. "Epigenome Wide Associations of Smoking Behavior in the Health and Retirement Study." *Innovation in Aging* 5 (Supplement 1): 668.

- Meier, Helen C. S., **Colter Mitchell**, Eileen M. Crimmins, Bharat Thyagarajan, and Jessica D. Faul. 2021. "Association of GrimAge DNA Methylation Components and 2-Year Mortality in the Health and Retirement Study." *Innovation in Aging* 5 (Supplement 1): 675.
- Kelly M Bakulski, Harita S Vadari, Jessica D. Faul, Steven G Heeringa, Sharon LR Kardia, Kenneth M Langa, Jennifer A. Smith, Jennifer J. Manly, **Colter M Mitchell**, Kelly S. Benke, Erin B Ware A non-APOE polygenic score for Alzheimer's disease and APOE-ε4 have independent associations with dementia in the Health and Retirement Study medRxiv 2020.02.10.20021667; doi: <https://doi.org/10.1101/2020.02.10.20021667>
- Perline A. Demange, Margherita Malanchini, Travis T. Mallard, Pietro Biroli, Simon R. Cox, Andrew D. Grotzinger, Elliot M. Tucker-Drob, Abdel Abdellaoui, Louise Arseneault, Avshalom Caspi, David Corcoran, Benjamin Domingue, **Colter Mitchell**, Elsje van Bergen, Dorret I. Boomsma, Kathleen M. Harris, Hill F. Ip, Terrie E. Moffitt, Richie Poulton, Joseph Prinz, Karen Sugden, Jasmin Wertz, Benjamin Williams, Eveline L. de Zeeuw, Daniel W. Belsky, K. Paige Harden, Michel G. Nivard Investigating the Genetic Architecture of Non-Cognitive Skills Using GWAS-by-Subtraction bioRxiv 2020.01.14.905794; doi: <https://doi.org/10.1101/2020.01.14.905794>
- Erin B Ware, Jessica D Faul, **Colter Mitchell**, Kelly M Bakulski Considering the *APOE* locus in polygenic scores for Alzheimer's disease medRxiv 2019.10.19014365
- Gard, Arianna M., Erin B. Ware, Luke W. Hyde, Lauren Schmitz, Jessica Faul, **Colter Mitchell**. Assessing the Structure and Specificity of Polygenic Scores for Psychiatric Disorders in a Population-based Cohort of Older Adults *bioRxiv* 601609; doi: <https://doi.org/10.1101/601609>
- Mitchell, Colter**. 2018. "The Genetics of Social Behavior: A Hopeless Opus?" *Handbook of Evolution, Biology, and Society*, Rosemary Hobcraft (Ed). Oxford Press.
- Ware, Erin B., Lauren L. Schmitz, Jessica D. Faul, Arianna Gard, **Colter Mitchell**, Jennifer A. Smith, Wei Zhao, David Weir, & Sharon L. Kardia. 2017. Heterogeneity in polygenic scores for common human traits. *bioRxiv*.
- Mitchell, Colter** and Daniel Nottelman. 2014. "Reply to Drury and Theall: No evidence of population stratification" *Proceedings of the National Academy of Sciences* 111(24):E2442. Letters, online only.
- Mitchell, Colter**. 2014. "Born Together-Reared Apart: The Landmark Minnesota Twin Study" *Contemporary Sociology: A Journal of Reviews* 43(2): 262-264.
- Mitchell, Colter**. 2011. "Biosocial Foundations of Family Processes Edited by Alan Booth, Susan M. McHale and Nancy S. Landale." *Biodemography and Social Biology* 57:258-260.
- Mitchell, Colter**, Arland Thornton, Miles Kimball, and Linda Young-DeMarco. "Empirics on the Origins of Preferences: The Case of College Major and Religiosity." (NBER Working Paper #15182)

Thornton, A., S. Achen, J. Barber, G. Binstock, W. Garrison, D. Ghimire, W. Guangzhou, R. Inglehart, R. Jayakody, Y. Jiang, J. de Jong, R. Lesthaeghe, S. Mehenna, **C. Mitchell**, M. Moaddel, M.B. Ofstedal, N. Schwarz, Y. Xie, L.S. Yang, L. Young-DeMarco, and K. Yount. 2010 “Process and Method for Creating Questions and Protocols for an International Study of Developmental Idealism, Developmental Thinking, and Family Life.” In *Survey Methods in Multinational, Multiregional and Multicultural Contexts*, edited by M. Braun, B. Edwards, J. Harkness, T. Johnson, L. Lyberg, P. Mohler, B.E. Pennell, and T.W. Smith. Hoboken, NJ: John Wiley and Sons. *Winner of the 2013 American Association for Public Opinion Research (AAPOR) book award.*

Axinn, William G., Amie Emens and **Colter Mitchell**. 2008. “Ideational Influences on Family Change in the United States” Pp. 119-149 in *International Family Change: Ideational Perspectives*, edited by R. Jayakody, A. Thornton, and W. Axinn. Mahwah, NJ: Lawrence Erlbaum Associates.

**Mitchell, Colter** and John P. Hoffmann. 2004. *Solution Manual to Accompany Generalized Linear Models: An Applied Approach* by John P. Hoffmann. Boston, MA: Allyn & Bacon.

## GRANTS

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### *Current*

#### **PI/MPI**

R01 MD011716 Epigenetic Mediation of Adverse Social Context on Stress Response, Socioemotional Development, and Health in a Population-based Study of Minority and Low SES Children and Adolescents Mitchell (PI) 07/01/17 – 06/30/25 Role: PI

2018-2019 Administrative Supplement to examine cognitive decline related gene regions (i.e. genotype and methylation measures) associated with cognitive and non-cognitive skill development

2019 Presidential Early Career Award for Scientists and Engineers

R01 MH121079 Computational examination of RDoC threat and reward constructs in a representative, predominantly low-income, longitudinal sample at increased risk for internalizing disorders 7/19-6/26 Role: MPI (with Monk and Hyde)

2020 Administrative Supplement to add online module for COVID-19 impact survey

R01 MH130158 Structural Racism and Black American Mental Health: Neurophysiological Mechanisms and Sociocultural Processes Promoting Resilience During the Transition to Adulthood Role: MPI (Luke Hyde, Christopher Monk, Enrique Neblett)

R01 AG071071 Biological Aging Across the Life Course: Harmonizing Cohort Biospecimen Archives. 03/21 – 02/27. Role: MPI (with Faul and Gaydos)

R25 AG053227 Genomic Analysis for Social-Behavioral Scientists 09/15/16 - 05/30/27 (renewal) Role: MPI (Faul and Ware)

2019 Administrative Supplement to add an extra regular course and a methylation specific course

R24 AG054365 Network on Biomarker Collection and Measurement in Population Studies of Aging: 2022-2027 06/01/22-05/31/27 Role: MPI (with Faul and Crimmins)

U01 HD110063 The longitudinal impact of the COVID-19 pandemic and related multi-level mitigation and contextual factors on health and socioeconomic outcomes of individuals and families from a vulnerable population 09/01/22 – 05/31/27 Role: MPI (with Monk and Meier)

### **Co-I**

R01 HD076592 *Renewal of Reciprocal Genetic-Environmental Interactions during Childhood and Adolescence* Notterman (PI) 08/01/13-8/01/26 Role: Co-I/Michigan PI 2019-2024 *renewal awarded August 2019*

R01 AG07632 Epigenetic mechanisms underlying the direct and moderating effects of social connectedness on complex diseases in aging (PI Perry) Role: Co-I/Michigan PI 9/2022-4/2027

R01 HD103669-01 Fragile Families: The Third Generation Reichman & Teitler (MPI) 08/19/20 – 04/30/26 Role: Co-I/Michigan PI

R01 HD104297-01 The methylomic consequences of neighborhood disadvantage for youth risk-taking behaviors Burt & Clark (MPIs) 07/20/21 – 05/31/26 Role: Co-I

R01 MH123458-01 Building a multi-factor etiological model of the emergence of general psychopathology (the "P factor") in adolescence with multi-modal neuroimaging in ABCD Sripada (PI) 06/01/21 – 03/31/26 Role: Co-I

R01 AG068937 Social Circumstances and Epigenomics Promoting Health in Three Countries. Crimmins/Faul (MPI's). 09/20 – 04/26. Role: Co-I

R24 HD048404 Data Sharing and Archiving for Demographic Research. Marcotte (PI). 08/20 – 8/25. Role: Co-I

R25 HD101358 Interdisciplinary Research Training Program for International Population Science. Axinn (PI). 07/20 – 04/26. Role: Co-I

R01 067592 DNA Methylation, Genetics, and Modifiable Risk Factors of Dementia in a Nationally Representative, Multi-Ethnic Cohort. Bakulski/Ware (MPI's). 05/20 – 03/26. Role: Co-I

### **Completed**

R01 MD 013299 Racial inequalities in health throughout adulthood: The cumulative impact of neighborhood chemical and non-chemical stressors on epigenomic pathways Hicken (PI) 8/14/2018- 3/31/2023 Role Co-I

R01 HD052646 Transitions from Preschool through High School: Family, Schools & Neighborhoods Sastry (PI) 8/1/2018-4/30/2023 Role: Co-I

R01 DA001411-49S2 Monitoring the Future: Drug Use and Lifestyles of American Youth (Vaping Supplement). Miech (PI). 04/20 – 03/22. Role: Co-I

UG3MH11424901 Mechanisms Underlying Resilience to Neighborhood Disadvantage Burt (PI) 9/1/17-8/31/22 Role: Co-I

R01 MH110872-01A1 Understanding the Connections among Genes, Environment, Family Processes, and Mental Health Axinn (PI) 09/17 – 08/22 Role: Co-I

Jacobs Foundation Research Fellowship: Examining Early-life social and economic context on adolescent brain structure, cognitive and socioemotional development and the moderating effect of Childhood Methylation Role: PI

2019131700 Improving the Science of Learning by Documenting the Biomarker Hype Curve. Mitchell (PI). 01/20 – 12/21. Role: PI

Applying Whole Genome Data to Common Social Science Issues, Michigan Center on the Demography of Aging 9/1/14-8/31/15 Role: PI

R01 MH103761-01 Effects of poverty on affective development: A multi-level, longitudinal study. Monk (PI) 06/14-05/20 Role: Co-I

R56 MH110872 Understanding the Connections among Genes, Environment, Family Processes and Mental Health. Axinn (PI) 09/16 – 08/17 Role: Co-I

R01-AG047167-01 Measurement Error in Population Health Inequity Research using Novel Biomeasures Geronimus (PI)( 5/1/14-4/30/19 Role: Co-I

Population Neuroscience: A Pilot Project to Examine Poverty and Brain Imaging in Adolescence University of Michigan Population Studies Center 09/01/13-012/31/14 Role: Principal Investigator

R01 MH103761-01 (Administrative Supplement #2-Methylation) Effects of poverty on affective development: A multi-level, longitudinal study. Monk (PI) 08/15-05/19 Role: Co-Investigator

R03AG048806-01 Interplay of Genetic & Socioeconomic Predictors of Memory Decline in Older Adults. Faul and Smith (Co-PIs). 9/30/14-5/31/17 Role: Co-Investigator

1U01MH08798101 “Modifiable Risk and Protective Factors for Suicidal Behaviors in the US Army” (PI-Heeringa) 8/12-6/15 Role: Participating Investigator

Social Inequality and Telomere Length in Fragile Families University of Michigan Population Studies Center Initiatives Fund 03/01/13-3/30/14 Role: Principal Investigator

Eva L. Mueller New Directions in Economics and Demography Award “Spouse Selection in Nepal: From Love Marriage to Arranged Marriage” 9/07-6/08 Role: Principal Investigator

John Templeton Foundation “Research on the Effect of a College Major on Religiosity” 7/04-6/06 Role: Co-Principal Investigator (with Miles Kimball and Arland Thornton).

## **HONORS & AWARDS**

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2025 Inaugural Michael Lewis Endowed Lecture: From Neurons to Neighborhoods

2019 Presidential Early Career Award for Scientists and Engineers—Nominated by NIMHD for work on Epigenetics in Minority Populations

2017-2020 Jacobs Foundation Early Career Scholar

2016-2017 Chair of the ASA Section on Evolution, Biology, and Society

2009 Best Graduate Student Paper Award-University of Michigan Sociology Department

Partnerships for International Research and Education (PIRE) Predoctoral Fellowship 2008-2009

Rackham Predoctoral Fellowship 2007-2008

Marshall Weinberg Summer Research Fellowship 2007

NICHD Pre-doctoral Traineeship 2003-2004, 2004-2005, 2006-2007

High Pass on Social Demography Preliminary Exam 2005

Merlin and Edna Sant Scholarship 2002-2003

## **PROFESSIONAL INTERESTS**

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Social and Family Demography, Biosocial Interactions, Child Development, Aging and the Life Course, Population Health, Quantitative Methods, Mental Health, Survey and Biological Data Collection Methods

## **PROFESSIONAL ACTIVITIES**

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### *National and International Service:*

Member and Interim Chair, Observational Study Monitoring Board, HEALthy Brain and Child Development Study

Co-Chair of the NIA supported Life Course Population Functional Genomics Consortium 2019-Present

Permanent Member, Eunice Kennedy Shriver National Institute of Child Health and Human Development Initial Review Group, Population Subcommittee (CHHD-W), 2020-2024  
Permanent Member, Eunice Kennedy Shriver National Institute of Child Health and Human Development Initial Review Group, Pediatrics Subcommittee (CHHD-A), 2015-2018  
Ad Hoc Member (3 times), Eunice Kennedy Shriver National Institute of Child Health and Human Development, Population Subcommittee (CHHD-W), 2018  
Ad Hoc Member of Study Sections SSPA, SSPB, Special Emphasis Panel on Telomere Methodology, and Special Emphasis Panel for P2C Population Studies Centers Biology and Social Science Working Group, Russell Sage Foundation 2014-2019  
Chair (elect, chair, ex), ASA Section on Evolution, Biology, and Society 2015-2018  
Dorothy Thomas Award Committee 2015, 2017  
Council Member, ASA Section on Evolution, Biology, and Society 2012-2015

*Editorial:*

Deputy Editor *Demography*

Editorial Assistant for *Sociological Methodology* 2008- 2009

Occasional Reviewer for *Science, Nature, JAMA, Lancet, Demography, Epigenetics, Clinical Epigenetics, Proceedings of the National Academy of Sciences, American Sociological Review, American Journal of Public Health, American Journal of Sociology, Biological Psychiatry, Social Forces, Sociological Methodology, Journal of Marriage and Family, Social Science Research, Journal for the Scientific Study of Religion, Field Methods, and The Journal of Clinical Psychiatry.*

*Member:*

American Sociological Association, Population Association of America, European Association of Population Studies, Asian Population Association, Eastern Sociological Society, National Council on Family Relations, American Society of Human Genetics, International Biometric Society, Endocrine Society

*Conference:*

Co-Organizer of the Life Course Functional Genomics Consortia Meeting Virtual April 21-22 (intended part of the Annual Meeting of the Population Association of America)

Co-Organizer of the SRCD Secondary Data Analyses and Resources for Development Scientists Conference in Phoenix, AZ Oct.3-6

Session Organizer on Population Processes Annual Meeting of the 2017 American Sociological Association, Montreal, Canada

Session Organizer for 2 sessions on Genetics in Population Research 2017 Annual meeting of the Population Association of America Chicago, IL

Session Organizer on Biosocial Perspectives on Child and Adolescent Development, 2014 Annual Meetings of the Population Association of America, Boston, MA

Regular Session Organizer on Biosociology/Biosocial Interaction at the 2012 American Sociological Annual Meeting in Denver, CO

Session Chair on Genetic Influences and Demographic Behaviors at the 2009 Annual Meetings of the Population Association of America, Detroit, MI.

Session Chair on Religion, Contraception, and Fertility at the 2008 Annual Meetings of the Population Association of America, New Orleans, LA.

## TEACHING POSITIONS

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NIA Workshop on Genomics for Social Scientists, University of Michigan 2017-2025 Ann Arbor MI, Co-Director and Instructor  
NIMHD Summer Workshop on Health Disparity Research, August 15, 2017, Bethesda Maryland, Instructor for Biological Consequences of Inequality  
NIA Workshop on Genomics for Social Scientists, University of Michigan June.12-16, 2017 Ann Arbor MI, Co-Director and Instructor  
Graduate Student Instructor for Quantitative Methods I (Soc 542), Department of Sociology, University of Michigan, Yu Xie as instructor, Fall 2005  
Instructor for Applied Social Statistics (Soc 306) Department of Sociology, Brigham Young University, Spring 2003  
Teaching Assistant for John P. Hoffmann; Multiple Regression Analysis (Soc 605), Generalized Linear Models (Soc 606), and Applied Social Statistics (Soc 306) Department of Sociology, Brigham Young University, 2001 to 2003.

## RESEARCH POSITIONS

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Fragile Families and Child Wellbeing Data Collection Manager, Bendheim-Thoman Center for Research on Child Wellbeing, Princeton University, May 2010-Oct.2010  
Graduate Student Research Assistant to Arland Thornton, University of Michigan, for Determinants of Marriage and Childbearing Attitudes, Winter 2006-Summer 2006

## SELECTED PRESENTATIONS

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Mitchell, Colter The Complexity, Potential, and Peril of Social Epigenetics. Keynote of the Symposium on Aging Indiana University March 2025  
Faul, Jessica and Colter Mitchell, Keynote 4: Social Science Research Across the Life Course, ISR 75<sup>th</sup> Anniversary Symposium Oct 15, 2024  
Mitchell, Colter, Helen Meier, Christopher Monk COVID-19 in a Vulnerable Population: Results from the Study of Adolescent to Adult Neural Development Annual meeting of the Social, Behavioral, and Economic COVID Coordinating Center, May 9-10, 2024  
Mitchell, Colter, Trey Smith, Josh Goode, Erin Ware, Helen Meier, Jessica Faul, Daniel Notterman. Utilizing Longitudinal Methylation Analyses to Connect Environment to Health, Development, and Aging Annual Meeting of the Population Association of American April 18-20  
Mitchell, Colter The Potential and Peril of Social Epigenetics Feb 23, 2024 Keynote Carolina Population Center's 2023-2024 Interdisciplinary Research Seminar Series  
Mitchell, Colter Examining social and health inequalities using epigenetics in the Fragile Families and Child Wellbeing Study. June 2, 2022 NIMHD Social Epigenomics Grantee Meeting  
Mitchell, Colter, Jonah Fisher, Lisa M. Schneper, Daniel A. Notterman, and Jessica Faul. 2022. Examining the effects of Collection and Storage Procedures on DNA Methylation Colter Mitchell, Jonah Fisher, Lisa M. Schneper, Daniel A. Notterman, and Jessica Faul May 26, 2022 MICDA Award Meeting\

- Mitchell, Colter, Jonah Fisher, Lisa M. Schneper, Daniel A. Notterman, and Jessica Faul. 2022. Collection and Storage of DNA Methylation May 23, 2022 Royal Statistical Society Seminar on Biomarker Collection
- Mitchell, Colter, Jonah Fisher, Jessica Faul, Erin Ware, Lisa Schneper, John Dou, Kelly Backulski, Daniel Notterman. 2021. *Longitudinal Assessment of Methylation Profiles in a Multiethnic Population of Children and Adolescents* Annual meeting of the Population Association of America 2021
- Mitchell, Colter. 2021 The Potential (and Pitfalls) using Epigenetics for Examining Social and Health Inequalities. Invited Lecture, Harvard Center for Population and Development, Harvard University
- Mitchell, Colter. 2021 The Potential (and Pitfalls) using Epigenetics for Examining Social and Health Inequalities. Invited Lecture Population Studies Center, University of Michigan
- Mitchell, Colter 2020. The Health of the World Depends on Biology and Social Sciences Working Together Annual Meeting of the American Sociological Association Session 4136 - Biosociology and Biosocial Interaction Tue, August 11, 2020
- Mitchell, Colter 2020 Social Disadvantages and Changes in Methylation in Children and Adolescents Annual Meeting of the American Sociological Association Session 4409 - Expanding Diversity of Biosocial Research: Opportunities and Challenges Tue, August 11, 2020.
- Gard, Arianna, Colter Mitchell, Jeanne Brooks-Gunn, Sara McLanahan, Christopher Monk, and Luke Hyde 2020. Mediators of Neighborhood Disadvantage on Youth Brain Development: Social Processes and Physical Exposures. Annual Meeting of the American Sociological Association Session 4409 - Expanding Diversity of Biosocial Research: Opportunities and Challenges Tue, August 11, 2020.
- Faul, Jessica and Colter Mitchell. The Effects of Collection on DNA Methylation Measurement in Population-based Surveys of Aging. 2020 MiCDA Pilot Project Symposium. May 21, 2020
- Mitchell, Colter. Longitudinal Methylation Patterns of a Multiethnic Sample of Children and Teens. Life Course Functional Genomics Consortia Annual Meeting. April 21, 2020 Virtual due to COVID-19
- Mitchell, Colter. Biosocial Approaches to Health Disparities. NIMHD 10 anniversary Symposium. Bethesda Maryland. March 3, 2020.
- Mitchell, Colter. Biosocial Approaches to Health Disparities. February 25, 2020. Center for Human Growth and Development, University of Michigan.
- Mitchell, Colter. Longitudinal Methylation Patterns of a Multiethnic Sample of Children and Teens. Life Course Functional Genomics Consortia Annual Meeting. April 21, 2020 Virtual due to COVID-19
- Mitchell, C. *Genetic Effects on Health and Education Across the Life Course*. Symposium submitted to the 2019 Biannual Meeting of the Society for Research in Child Development (SRCD), Baltimore, MD, USA.
- Mitchell, Colter Biological Mediators and Moderators of Social Disadvantage Demography Seminar, University of Wisconsin Center for the Demography of Health and Aging.
- Mitchell, Colter Application of Late Life Cognition Gene Region, Polygenic, and Epigenetic Scores to Early Life Cognitive Development. Integrating Genes and Social Sciences. Boulder, CO Oct. 11-12, 2018.

Mitchell, Colter Biological Mediators and Moderators of Social Disadvantage Demography Seminar, University of Texas-Austin February 2019.

Mitchell, Colter Biological Mediators and Moderators of Social Disadvantage University of North Carolina Chapel Hill

Mitchell, Colter Biological Mediators and Moderators of Social Disadvantage Jacobs Foundation Annual Meeting

Faul, Colter and Colter Mitchell Integrating Biology into the Social Sciences, Getting to Know ISR Series

Mitchell, Colter Biological Mediators and Moderators of Social Disadvantage Demography Seminar, University of Wisconsin Center for the Demography of Health and Aging.

Mitchell, Colter Application of Late Life Cognition Gene Region, Polygenic, and Epigenetic Scores to Early Life Cognitive Development. Integrating Genes and Social Sciences. Boulder, CO Oct. 11-12, 2018.

Mitchell, Colter “Link from Poverty to Internalizing Symptoms Through Brain Development” Fall Research Workshop: Poverty and Brain Development in Children.” Madison, WI Sept. 27

Faul JD, Mitchell C, Schnepfer LM, Notterman DA. The Effects of Collection Procedures on Telomere Length Measurement in Population-based Surveys of Aging. Population Association of America – Biomarker Network meeting. April 25, 2018.

Mitchell CM. (in collaboration with Ware EB, Schnepfer L, Notterman, D. Application of Late Life Cognition Genes to Early Life Cognitive Development, Population Association of America Biomarker Network meeting, April 25, 2018. Denver, CO. Oral presentation.

Mitchell, Colter “Genes, Methylation, Brain Development and Education in a population-based sample.” Jacobs Fellows meeting Marbach Castle, Germany. April 17-20.

Mitchell, Colter. Epigenetic and Early Life Correlates of Telomere Length. NIEHS Workshop on Telomere Length. Raleigh, NC Sept. 6-7, 2017

Mitchell, C. Starting off on the wrong (or right) foot: How poverty, genes, and methylation influence cognition in two studies Integrating Genetics and Social Sciences Conference. Boulder, CO, October 21-22, 2016.

Mitchell, Colter., Jessica Faul, Erin Ware, Jennifer Smith, Daniel Notterman Constructing and Analyzing Genetic Rare Variant Burden Scores in Population-Based Studies Annual Meeting of the Population Association of America.

Mitchell Colter A Didactic Session: Incorporating Genetic Information into Sociological Research. 2016. Annual Meeting of the American Sociological Association.

Mitchell, Colter. 2016. Neuroimaging in Population-Based Studies: the experience of the Fragile Families and Child Wellbeing Study. Annual Meeting of the Population of America, Washington D.C. March 30-April2, 2016.

Mitchell, Colter, Jessica Faul, and Jennifer Smith. Investigating Social and Genetic Influences of Cognitive Decline: Insights from Using Population-based Longitudinal Data. Society for Longitudinal and Lifecourse Studies conference, Dublin, Ireland October 18-21, 2016.

Mitchell, Colter. Statistical Design and Methods for Integrating Biomarker and Genetic Data into the Army STARRS Epidemiological Study of Suicidality. Joint Statistical Meetings 2015, Seattle Washington August 8-13.

Mitchell, Colter, Steven Heeringa, Roderick Little. 2015. What is a representative genome? The challenges and benefits of applying complex survey weights to genome-wide data. European Survey Research Association, Reykjavik, Iceland, July 14-17.

- Mitchell, Colter and Jessica Faul. 2015. Individual, Family, Interviewer and Survey Effects of Nonresponse and Bio-Specimen Quality in Five Representative US Studies. European Survey Research Association, Reykjavik, Iceland, July 14-17.
- Brooks-Gunn, Jeanne, Colter Mitchell, Daniel Notterman, Frances Champagne. 2015. How to Make a Life Course Birth Cohort Study Relevant for Biologists, Psychologists, Sociologists and Economists: The Case of the Fragile Families Study. 2015 meeting of the Association for Psychological Science, New York City, NY.
- Mitchell, Colter, Sara McLanahan, and Daniel Notterman. 2015. Biological Aging Due to Biological Father Loss: Comparing the Effect of Father Incarceration, Union Dissolution, and Death on Child and Mother Telomere Length. Annual Meeting of the Population Association of American, San Diego, CA April 30-May 2.
- Mitchell, Colter. 2015. Measuring Biological Age: Telomere Length and DNA Methylation Age in Two Longitudinal Studies San Diego, CA, April 29, NIA Biomarker Network Meeting.
- Mitchell, Colter, Lisa Schneper, Sara McLanahan, and Daniel Notterman. "Developmental Stress and Children's Telomere Length" PPTOX, Boston, MA Oct. 26-29.
- Mitchell, Colter. 2014. The Association of Telomere Length and Deployment with Telomere Erosion. Integrating Genetics and the Social Sciences, Boulder CO, Oct. 9.
- Mitchell, Colter. 2014. "The Interplay of Social Disadvantage, Children's Genetic Make-up, and Children's Wellbeing" Minding the Gap: Research at the Intersection of the Life and Social Sciences, University of Colorado-Denver, Denver, CO Sept. 26.
- Mitchell, Colter. 2014. "Fragile Families and Child Wellbeing: Examining the Interplay of Genes and the Social Environment in a Developmental Context" Center for Human Growth and Development, University of Michigan, Ann Arbor, MI Sept. 23.
- Mitchell, Colter. 2014. "Collecting Biomarkers in Population Studies" Data Collection Methods-Survey Research Center Summer Institute, Ann Arbor, MI July 16.
- Mitchell, Colter. 2014. "Demographic, Statistical, and Reproducibility Issues Around Gene-Environment Interaction Replication" NIH Workshop on Challenges in Replication of GxE Research, Bethesda, MD May 22.
- Mitchell, Colter. 2014. "Scientific Heterogamy: Population Studies and the Black Box of the Brain" Relevance of Population Neuroscience for Understanding Human Development, SRCD Special Meeting, Ann Arbor, MI, May 16-17.
- Mitchell, Colter. 2014. "Social disadvantage, genetic sensitivity, and children's telomere length." Center for Social Epidemiology and Population Health" Ann Arbor, MI, May 14.
- Mitchell, Colter, Jillian Wiggins, Jeanne Brooks-Gunn and Sara McLanahan. 2014 "Family Structure, Parenting, Genes and the Co-Development of Behavioral Problems" Presented at the Annual Meetings of the Population Association of America, Boston, MA, May 1.
- Mitchell, Colter. 2014. "DNA Methylation in Population Research" NIA Biomarker Network Meeting. Boston, MA, April 30.
- Mitchell, Colter. 2014. "Biosocial Research: Early Findings, Current Work, and Future Directions" Brigham Young University. April 21.
- Mitchell, Colter. 2014. "Fragile Families and Child Wellbeing: Examining the Interplay of Genes and the Social Environment" Developmental Psychology Brownbag Seminar, Ann Arbor, MI March 24.
- Mitchell, Colter, John Hobcraft, Sara McLanahan, Jeanne Brooks-Gunn, Irwin Garfinkel, and Daniel Notterman 2013 "Social Weathering of Genes: Demographic and Social Correlates of

Telomere Length of Mothers and Children” Presented at the Fragile Families Working Group –November 2013, Princeton NJ.

Mitchell, Colter, John Hobcraft, Sara McLanahan, Susan Rutherford Seigel, Jeanne Brooks-Gunn, Irwin Garfinkel, and Daniel Notterman “Social Weathering of Genes: Demographic and Social Correlates of Telomere Length of Mothers and Children” Integrating Genetics and the Social Sciences-2013, Boulder, CO Oct 11-13, 2013.

Mitchell, Colter, Sara McLanahan, Jeanne Brooks-Gunn, Daniel Notterman, John Hobcraft and Irwin Garfinkel Externalizing Behavior from Age 3 to Age 9: Paternal Exits and Entrances Moderated by Genetic Sensitivity 2013 SRCD Biennial Meeting Seattle Washington

Mitchell, Colter, John Hobcraft, Sara McLanahan, Jeanne Brooks-Gunn, Irwin Garfinkel, and Daniel Notterman 2013 “Social Weathering of Genes: Demographic and Social Correlates of Telomere Length of Mothers and Children” Presented at the Annual Meetings of the Population Association of America, New Orleans, LA.