EDUCATION

2022-present Icahn School of Medicine at Mount Sinai (New York, New York)

PhD Student in Biomedical Sciences

Training area: Genetics and Genomic Sciences

2016-2020 University of Colorado Boulder (Boulder, CO)

B.A., Ecology and Evolutionary Biology

B.A., Environmental Studies

GRANTS & FELLOWSHIPS

2022-2027 The National Science Foundation Graduate Research Fellowship

AWARDS & HONORS

2020	WCPG Early-Career Investigator Travel Award
2016-2020	University of Colorado's Presidential Scholarship - awarded to nonresident freshman in the top 1-3% of the admitted freshman class.
2016	Shredwell Scholarship – awarded by the OISA

PUBLICATIONS

COVID-19 Host Genetics Initiative & Ganna, A. (2023). A second update on mapping the human genetic architecture of COVID-19. In press at *Nature*. Pre-print doi:10.1101/2022.12.24.22283874

Colbert, S.M.C., Wendt, F.R., Pathak, G.A., Helmer, D.A., Hauser, E.R., Keller, M.C., Polimanti, R. & Johnson, E.C. (2023). Declining autozygosity over time: an exploration in over 1 million individuals from three large and diverse cohorts. *American Journal of Human Genetics*. doi:10.1016/j.ajhg.2023.04.007

Hatoum, A.S., **Colbert, S.M.C.**, Johnson, E.C., Huggett, S.B., Deak, J., Pathak, G., Jennings, M., Paul, S.E., Karcher, N.R., Hansen, I., Edwards, A., Grotzinger, A., Substance Use Disorders Working Group of the Psychiatric Genomics Consortium, Tucker-Drob, E., Kranzler, H., Sanchez-Roige, S., Davis, L., Polimanti, R., Gelernter, J., Edenberg, H.J., Bogdan, R. & Agrawal, A. (2023). Multivariate Genome-Wide Association Meta-analysis of over 1 million subjects identifies loci underlying multiple substance use disorders. *Nature Mental Health*. doi:10.1038/s44220-023-00034-y

Colbert, S.M.C., Mullins, N., Chan, G., Meyers, J., Schulman, J., Kuperman, S., Lai, D., Nurnberger, J., Plawecki, M.H., Kamarajan, C., Anokhin, A., Bucholz, K., Hesselbrock, V., Edenberg, H.J., Kramer, J., Dick, D.M., Porjesz, B., Agrawal, A. & Johnson, E.C. (2023). Polygenic contributions to

- suicidal thoughts and behaviors in a sample ascertained for alcohol use disorders. *Complex Psychiatry*. doi:10.1159/000529164
- Gorelik, A.J., Paul, S.E., Karcher, N.R., Johnson, E.C., Nagella, I., Blaydon, L., Modi, H., Hansen, I.S., **Colbert, S.M.C.**, Baranger, D.A.A., Norton, S., Spears, I., Gordon, B., Zhang, W., Hill, P., Oltmanns, T.F., Bjisterbosch, J.D., Agrawal, A., Hatoum, A.S., Bogdan, R. (2023). A Phenome-Wide Association Study (Phewas) Of Late Onset Alzheimer Disease Genetic Risk in Children of European Ancestry at Middle Childhood: Results From the ABCD Study. *Behavior Genetics*. doi:10.1007/s10519-023-10140-3
- Johnson, E.C., Paul, S.E., Baranger, D.A.A., Hatoum, A.S., **Colbert, S.M.C.**, Lin, L., Wolff, R., Gorelik, A., Hansen, I., Karcher, N.R., Bogdan, R., Agrawal, A. (2023). Characterizing alcohol expectancies in the ABCD Study: associations with sociodemographic factors, the immediate social environment, and relevant polygenic scores. *Behavior Genetics*. doi:10.1007/s10519-023-10133-2
- Johnson, E.C., **Colbert, S.M.C.**, Jeffries, P.W., Tillman, R., Bigdeli, T., Karcher, N.R., Chan, G., Kuperman, S., Meyers, J.L., Nurnberger, J.I., Plawecki, M.H., Degenhardt, L., Martin, N.G., Kamarajan, C., Schuckit, M., Murray, M.M., Dick, D.M., Edenberg, H.J., Cyril D'Souza, D., Di Forti, M., Porjesz, B., Nelson, E.C. & Agrawal, A. (2022). Associations between cannabis use, polygenic liability for schizophrenia, and cannabis-related experiences in a sample of cannabis users. *Schizophrenia Bulletin*. doi:10.1093/schbul/sbac196
- **Colbert, S.M.C.**, Keller, M.C., Agrawal, A. & Johnson, E.C. (2022). Exploring the relationships between autozygosity, educational attainment, and cognitive ability in a contemporary, trans-ancestral American sample. *Behavior Genetics*. doi:10.1007/s10519-022-10113-y
- **Colbert, S.M.C.** & Johnson, E.C. (2022). Commentary on Lannoy et al.: The continued value of within-family designs in addiction and psychiatric research. *Addiction*. doi:10.1111/add.16040
- Baranger, D.A.A., Paul, S.E., **Colbert, S.M.C.**, Karcher, N.R., Johnson, E.C., Hatoum, A. S., & Bogdan, R. (2022). Increased mental health burden associated with prenatal cannabis exposure persists from childhood to early adolescence: Longitudinal results from the Adolescent Brain Cognitive Development (ABCD) Study. *JAMA Pediatrics*. doi:10.1001/jamapediatrics.2022.3191
- Lai, D., Johnson, E. C., **Colbert, S. M. C.**, Pandey, G., Chan, G., Bauer, L., Francis, M., Hesselbrock, V., Kamarajan, C., Kramer, J., Kuang, W., Kuo, S., Kuperman, S., Liu, Y., McCutcheon, V., Pang, Z., Plawecki, M., Schuckit, M., Tischfield, J., Wetherill, L., Zang, Y., Edenberg, H., Porjesz, B., Agrawal, A. & Foroud, T. (2021). Evaluating risk for alcohol use disorder: comparing polygenic risk scores and family history. *Alcoholism: Clinical and Experimental Research*. doi:10.1111/acer.14772
- **Colbert, S.M.C.**, Hatoum, A.S., Shabalin, A., Li, Q., Coon, H., Nelson, E., Agrawal, A., Docherty, A.R. & Johnson, E.C. (2021). Exploring the genetic overlap of suicide-related behaviors and substance use disorders. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*. doi:10.1002/ajmg.b.32880
- Hatoum, A. S., Johnson, E. C., **Colbert, S. M. C.**, Polimanti, R., Zhou, H., Walters, R., Substance Use Disorders Working Group of the Psychiatric Genomics Consortium, Gelernter, J., Edenberg, H.J., Bogdan, R. & Agrawal, A. (2021). The Addiction Risk Factor: A Unitary Genetic Vulnerability Characterizes Substance Use Disorders and Their Associations with Common Correlates. *Neuropsychopharmacology*. doi:10.1038/s41386-021-01209-w

Colbert, S. M. C., Funkhouser, S. A., Johnson, E. C., Morrison, C.L., Hoeffer, C. A., Friedman, N., Ehringer, M. A., & Evans, L. M. (2021). Novel characterization of the multivariate genetic architecture of internalizing psychopathology and alcohol use. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*. doi:10.1002/ajmg.b.32874

Hatoum, A. S., Morrison, C. L., **Colbert, S. M. C.**, Winiger, E. A., Johnson, E. C., Agrawal, A., & Bogdan, R. (2021). Genetic Liability to Cannabis Use Disorder and COVID-19 Hospitalization. *Biological Psychiatry Global Open Science*. doi:10.1016/j.bpsgos.2021.06.005

PRE-PRINTS AND IN-PREP

Paul, S.E., **Colbert, S.M.C.**, Gorelik, A.J., Hansen, I.S., Nigella, I., Blaydon, L., Hornstein, A., Johnson, E.C., Hatoum, A.S., Baranger, D.A.A., Elsayed, N.M., Barch, D.M., Bogdan, R. & Karcher, N.R. (Pre-print). Phenome-wide Investigation of Behavioral, Environmental, and Neural Associations with Cross-Disorder Genetic Liability in Youth of European Ancestry. doi:10.1101/2023.02.10.23285783

Paul, S.E., Elsayed, N., Bogdan, R., **Colbert, S.M.C.**, Hatoum, A.S., & Barch, D. (Pre-print). Childhood Socioeconomic Status and Polygenic Scores for Cognition Have Independent Associations with Cognitive Performance in Childhood. doi:10.1101/2021.08.26.21262684

BOOK CHAPTERS

Colbert, S. M. C. & Johnson, E. C. (2023). Genetic explanations for the association between cannabis and schizophrenia. In D'Souza D., Castle D., and Murray R. (Eds.), *Marijuana and Madness*, 3rd Ed.

CONFERENCE PRESENTATIONS

Colbert, S.M.C., Wendt, F.R., Pathak, G.A., Helmer, D.A., Hauser, E.R., Keller, M.C., Polimanti, R. & Johnson, E.C. (2023, May). Declining autozygosity over time: an exploration in over 1 million individuals from three large and diverse cohorts. Poster presentation presented at the Friedman Brain Institute Neuroscience Retreat.

Colbert, S.M.C., Agrawal, A. & Johnson, E.C. (2022, June). Cross-disorder genome wide analyses of problematic alcohol use, suicide attempt and depression reveal shared risk loci. Symposium talk presented at the Research Society on Alcoholism Scientific Meeting.

Colbert, S.M.C., Hatoum, A.S., Shabalin, A., Coon, H., Nelson, E., Agrawal, A., Docherty, A.R. & Johnson, E.C. (2021, June). Exploring the genetic overlap of suicide-related behaviors and substance use disorders. Poster presentation presented at the Annual Behavioral Genetics Association Meeting.

Colbert, S. M. C., Funkhouser, S. A., Johnson, E. C., Hoeffer, C. A., Ehringer, M. A., & Evans, L. M. (2020, October). Differential shared genetic influences on anxiety with problematic alcohol use compared to alcohol consumption. Poster presentation presented at the Annual World Congress of Psychiatric Genetics.

Colbert, S. M. C., Funkhouser, S. A., Johnson, E. C., Hoeffer, C. A., Ehringer, M. A., & Evans, L. M. (2020, June). Differential shared genetic influences on anxiety with problematic alcohol use compared to alcohol consumption. Oral presentation presented at the 50th Annual Behavioral Genetics Association Meeting.

RESEARCH POSITIONS

2023-present	Icahn School of Medicine at Mount Sinai, Department of Genetics PhD student Supervisor: Niamh Mullins, Ph.D.
Fall 2022	Icahn School of Medicine at Mount Sinai, Department of Genetics Rotating PhD student Supervisor: Alison Goate, Ph.D.
Fall 2022	Icahn School of Medicine at Mount Sinai, Department of Psychiatry Rotating PhD student Supervisor: Niamh Mullins, Ph.D.
2021-2022	Washington University School of Medicine, Department of Psychiatry Statistical Data Analyst Supervisors: Arpana Agrawal, Ph.D., Emma Johnson, Ph.D
2020-2021	Institute for Behavioral Genetics, University of Colorado Boulder Professional Research Associate Supervisor: Luke Evans, Ph.D.
2020	Department of Ecology and Evolutionary Biology , University of Colorado Boulder Undergraduate Research Project, "Differential shared genetic influences on anxiety with problematic alcohol use compared to alcohol consumption" Supervisor: Luke Evans, Ph.D.

TEACHING POSITIONS

2019-2020

2019 **EBIO 2070: Genetics: Molecules to Populations**, University of Colorado Boulder Learning Assistant | Instructor: Cheryl Pinzone

Rocky Mountain Wild, Colorado Pika Project 100 Women for the Wild Research Intern

AD-HOC REVIEW ACTIVITIES

Molecular Psychiatry, Addiction, European Psychiatry