

EDUCATION

- Present **The University of Colorado Boulder**, Boulder, CO
Behavioral, Psychiatric and Statistical Genetics
Department of Psychology and Neuroscience
Doctoral Student
- 2017 **The University of Texas at Austin**, Austin, TX
Bachelor of Science in Psychology
Biology Minor
Special Honors in Psychology
University High Honors
- Honors Thesis: A Behavioral Genetic Analysis of Substance Use and Risky Sexual Behavior in Adolescence
Faculty Supervisor: Kathryn Paige Harden, Ph.D.

PUBLICATIONS & PREPRINTS

- Freis, S.M.**, Morrison, C.L., Lessem, J., Hewitt, J.K., Friedman, N.P. (under review). Genetic and environmental influences on executive functions and intelligence in the ABCD Study. Preprint on *PsyArXiv*, doi.org/10.31234/osf.io/xpba4
- Malanchini, M., Engelhardt, L.E., Sabhlok, A., Grotzinger, A.D., Briley, D., Madole, J.W., **Freis, S.M.**, Patterson, M.W., Harden, K.P., & Tucker-Drob, E.M. (2020). Weak and uneven associations of home, neighborhood, and school environments with stress hormone output across multiple timescales. *Molecular Psychiatry*, 1-16, doi.org/10.1038/s41380-020-0747-z
- Harden, K.P., Engelhardt, L.E., Mann, F.D., Patterson, M.W., Grotzinger, A.D., Savicki, S.L., Thibodeaux, M.L., **Freis, S.M.**, Tackett, J.L., Church, J.A., & Tucker-Drob, E.M. (2019). Overlapping genetic influences on executive functions, intelligence, and a general factor of psychopathology. *Journal of the American Academy of Child and Adolescent Psychiatry*, 59(6), 749-758, doi.org/10.1016/j.jaac.2019.05.006

PRESENTATIONS

- Freis, S.M.**, Morrison, C.L., Lessem, J.M., Hewitt, J.K., Friedman, N.P. (June 2020). Genetic correlations between executive functions and intelligence in the Adolescent Brain Cognitive Development (ABCD) Study. Virtual poster presented at the Behavior Genetic Association Annual Meeting.
- Raffington, L., Malanchini, M., Engelhardt, L.E., Grotzinger, A.D., Sabhlok, A., Briley, D., Madole, J.W., **Freis, S.M.**, Patton, N.W., Patterson, M.W., Harden, K.P., Tucker-Drob, E.M. (Accepted). Genes moderate children's and adolescents' cortisol responses to psychosocial stress and to the day. Society for Research on Adolescence, San Diego, California, conference canceled.
- Freis, S.M.**, O'Quinn, J., Cavanagh, S., & Harden, K.P. (May 2018). Linguistic analysis as a tool for studying the development of sexual well-being. Presentation as a part of the

symposium: Normative but controversial: Neural, cognitive, and behavioral aspects of adolescents' more-risky and less-risky sexual behavior presented at the 2018 Association for Psychological Science Annual Convention, San Francisco, CA.

Freis, S.M., O'Quinn, J., Cavanagh, S., & Harden, K.P. (April 2018). Identifying sexual self schemas in late adolescence through text analysis. Poster presented at the 2018 biennial meeting of the Society for Research on Adolescence, Minneapolis, MN.

Freis, S.M., Mann, F.D., Tackett, J., Tucker-Drob, E.M., & Harden, K.P. (April 2017). Correlations between substance use and sexual risk-taking in adolescence: A behavior genetic analysis. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

GRANTS, HONORS, & SCHOLARSHIPS

May 2017	Dean's Distinguished Graduate Award Honorable Mention
May 2017	Liberal Arts College Scholar
October 2016	Liberal Arts Honors Undergraduate Research Stipend
May 2016	Cum laude on the Dean's Honor Roll
December 2014	President's Honor Roll
December 2014	College of Arts and Sciences Dean's Honor Roll
August 2013	President David L Boren Award

RESEARCH EXPERIENCE

CoTwins: Colorado Twin Study

Institute for Behavioral Genetics
The University of Colorado Boulder
PIs: Naomi Friedman, Ph.D. & Scott Vrieze, Ph.D.
Graduate Research Assistant
May 2020 – Present

The Texas Twin Project

Department of Psychology
Population Research Center
The University of Texas at Austin
PIs: Kathryn Paige Harden, Ph.D. & Elliot Tucker-Drob, Ph.D.
Research Coordinator
May 2017 – May 2019

Developmental Behavioral Genetics Lab

Department of Psychology
Population Research Center
The University of Texas at Austin
PI: Kathryn Paige Harden, Ph.D.
Undergraduate Research Assistant
August 2015 - May 2017

RELEVANT COURSEWORK

Individual Differences Genetics	Experimental Psychology Human Brain Imaging in Psychology
Developmental Psychology	Graduate Statistics
Structural Equation Modeling	Behavioral Genetics
Biometrical Methods	Statistical Programming in R
Methods Proseminar in Behavioral Genetics	

WORKSHOPS AND TRAINING

March 2020	International Statistical Genetics Workshop	Institute for Behavioral Genetics, Boulder, Colorado
March 2018	Simulations & Power Analysis Workshop	Hosted by Elliot Tucker-Drob Ph.D., The University of Texas at Austin
February 2018	Twin Modeling Workshop	Hosted by Elliot Tucker-Drob Ph.D., The University of Texas at Austin

PROGRAMMING SKILLS

- Proficient working with R for data visualization, data cleaning, and statistical analysis
- Proficient in R Markdown
- Proficient in *MPlus*
- Beginner experience with Python for data management and processing

RESEARCH AND DATA MANAGEMENT SKILLS

- Proficient in managing data, building reports, and creating projects in REDcap
- Proficient in designing surveys and collecting data in Qualtrics
- Experience working with Meaning Extraction Helper (MEH) for text mining
- Beginner experience working with Tableau for data visualization
- Intermediate experience working with ArcGIS for geographic data analysis

TEACHING & MENTORSHIP EXPERIENCE

Project SHORT (Student Health Opportunities and Research Training)

Volunteer Mentor

Summer 2020 – Present

- Offered graduate school admissions counseling and consulting to traditionally under-represented students pursuing Ph.D. programs.

Graduate Student Mentor

Summer 2020 – Present

- Peer mentor for an incoming Ph.D. student at the University of Colorado Boulder.

University of Colorado Boulder

Graduate Teaching Assistant – Research Methods in Psychology

Fall 2019 and Spring 2020

University of Texas at Austin

Guest Lecturer – Health Psychology

Spring 2019

Texas Twin Project Research Assistant Professional Development Newsletter

Spring 2019

- Developed and implemented a bi-weekly research oriented professional development newsletter for research assistants on The Texas Twin Project.

Summer Undergraduate Research Experience – UT Austin

Co-mentor

Summer 2018

- Assisted in mentoring an undergraduate research project “Parental Bonding and Positive Risk Taking”. Presented as a part of the University of Texas Summer Undergraduate Research Experience program.

SCIENCE OUTREACH & COMMUNICATION

June 2020	Out in STEM, CU Boulder	Pathways in STEM conference interviewee on genetic research and LGBTQ+ identity
May 2020	The Logan School, Denver, CO	Guest lecturer for a unit on twin and family studies on behalf of the CoTwins Study
March 2019	Ridgeview Middle School, Round Rock, TX	Career day presenter on behalf of the Texas Twin Project
September 2019	Blackland Prairie Elementary, Round Rock, TX	Career day presenter on behalf of the Texas Twin Project

PROFESSIONAL AFFILIATIONS

Psi Chi

Behavior Genetic Association