ELISA FUMIKA STERN

345 UCB Muenzinger Psychology • Boulder, CO • 80309 elisa.stern@colorado.edu

EDUCATION

August 2021 – Ph.D., Clinical Psychology and Neuroscience, Certificate in

Expected 2027 Behavioral Genetics

University of Colorado Boulder, Boulder, Colorado

Advisors: Soo Hyun Rhee, Ph.D. and Roselinde Kaiser, Ph.D.

January 2024 Master's of Arts, Clinical Psychology

Master's Thesis title: Associations between cannabis use and suicidality:

A clinical longitudinal sibling study

Committee: Soo Hyun Rhee, Ph.D., Naomi P. Friedman, Ph.D., Jarrod M.

Ellingson, Ph.D.

July 2020 Master's of Research, Developmental Neuroscience and Psychopathology

Yale University, New Haven, CT

University College London, London, UK First Class Honors, Distinction in Degree

Master's Thesis title: <u>The psychosocial and neurodevelopmental impact of</u> prenatal cannabis exposure in nine- to ten-year-old children: Insights from a

computational approach

Advisors: Sarah Yip, Ph.D., Sarah Lichenstein, Ph.D.

May 2017 B.A., Psychology, concentration Neuroscience

Colby College, Waterville, ME Cum Laude / GPA: 3.81

Phi Beta Kappa

ACADEMIC AWARDS AND HONORS

2020 Distinction in master's thesis, *The psychosocial and neurodevelopmental impact*

of prenatal cannabis exposure in nine- to ten-year-old children: Insights from a

computational approach (University College London, Yale University)

2017 Elected to Phi Beta Kappa Honor Society (Colby College)

2016 Ralphe Bunche Summer Research Scholarship - \$3,000 award (*Colby College*)

2013 – 2017 Named Academic Dean's List, 6 out of 8 academic terms (*Colby College*)

2014 Elected to Psi Chi International Honor Society (Colby College)

2013 Admitted as Ralph Bunche Scholar (Colby College)

PEER-REVIEWED PUBLICATIONS

IN PRESS

Stern, E.F., Rhee, SH, & Whisman, M. (2024). Interparental Relationship Discord and Adolescent Psychopathology in a United States Probability Sample. *Research on Child and Adolescent Psychopathology*. Accepted 12/31/24.

Gustavson, D. E., **Stern, E. F.,** Reynolds, C. A., Grotzinger, A. D., Corley, R. P., Wadsworth, S. J., Rhee, S. H., & Friedman, N. P. (2024). Evidence for strong genetic correlations among internalizing psychopathology

and related self-reported measures using both genomic and twin/adoptive approaches. *Journal of Psychopathology and Clinical Science*, 133(5), 347–357. https://doi.org/10.1037/abn0000905.

Lichenstein, S. D., Manco, N., Cope, L. M., Egbo, L., Garrison, K. A., Hardee, J., Hillmer, A. T., Reeder, K., **Stern, E. F.**, Worhunsky, P., & Yip, S. W. (2021). Systematic review of structural and functional neuroimaging studies of cannabis use in adolescence and emerging adulthood: evidence from 90 studies and 9441 participants. *Neuropsychopharmacology: official publication of the American College of Neuropsychopharmacology*, 10.1038/s41386-021-01226-9. Advance online publication. https://doi.org/10.1038/s41386-021-01226-9

Zaboski, B. A., **Stern, E. F.**, Skosnik, P. D., & Pittenger, C. (2021). Electroencephalographic Correlates and Predictors of Treatment Outcome in OCD: A BriE.F. Narrative Review. *Frontiers in psychiatry*, *12*, 703398. https://doi.org/10.3389/fpsyt.2021.703398

Pushkarskaya, H., **Stern, E.**, Tolin, D. F., & Pittenger, C. (2020). Excessive acquisition of information during simple judgements in individuals with hoarding disorder. *Journal of Obsessive-Compulsive and Related Disorders*, *24*, 1-7. 100505. https://doi.org/10.1016/j.jocrd.2020.100505

Taga, M., Charalambous, C. C., Raju, S., Lin, J., Zhang, Y., **Stern, E**., & Schambra, H. M. (2021). Corticoreticulospinal tract neurophysiology in an arm and hand muscle in healthy and stroke subjects. *The Journal of physiology*, *599*(16), 3955–3971. https://doi.org/10.1113/JP281681

SUBMITTED & UNDER REVIEW

Stern, E.F.., Ellingson, J., Schaefer J., Corley, R., Hopfer C., Stallings M., Wall, T., Rhee, SH. Associations between cannabis use, major depressive disorder, and suicidality: A clinical longitudinal sibling study. Submitted February 2024.

Coccaro, A., Cheng, Z., Ruzic, L., Moser, AD., Jones, J., Peterson, EC., **Stern, E.F..,** Friedman, N., Kaiser, RH. Neurocognitive Biotypes of Risk and Resilience for Mood Disorders in Adolescents: Insights from Behavioral and Graph-Theoretic Network Markers. *Biological Psychiatry: Global Open Science*. Submitted December 2024.

Peterson, EC., Jones, J., Barnes-Horowitz, S., Moser, AD., **Stern, E.F.**., Coccaro, A., Neilson, C., Janes, AC., Friedman, N., Kaiser, RH. Executive Dysfunction and Depression Risk in Adolescence: fMRI Analysis of Transient Network States During a Working Memory Task. *Clinical Psychological Science*. Submitted October 2024.

Rieselbach, M., Gresko, S., Al Majid, F., **Stern, E.**, Corley, R., Hewitt, J. & Rhee, S. H. Test of alternative hypotheses explaining the association between parental autonomy granting and anxiety. *Journal of Research on Adolescence*. Submitted November 2023.

IN PREPARATION

Schaefer, J*, Ellingson, J*., **Stern, E.F..,** Zellers, S., Ross, M., Hinckley, J., Corley, R., Rhee, SH., Wilson, S., , Klimes-Dougan, B., Iacono, S., McGue, M., Hewitt, J., Vrieze, S., Hopfer, C. Cannabis use and suicidality: A multi-site, co-twin control study from adolescence through middle adulthood. *JAMA Psychiatry*. Ready for submission, January 2025.

*co-first authors

Stern, E.F., Hegarty, A., Barnes-Horowitz, S., Rhee, SH., Kaiser, R. Specific functional neuroimaging correlates of anhedonia. In preparation, anticipated submission Spring 2025.

Stern, E.F., Friedman, N., Gustavson, D., Rhee, SH., Reynolds, C., Ellingson, J.M. Examining the extent to which executive function can explain the co-occurrence between major depressive and alcohol, nicotine, and cannabis use disorders. In preparation, anticipated submission Summer 2025.

Stern, E.F..*., Gresko, S*., Corley, R. P., Ellingson, J., Hopfer, C., McGue, M., Ross, J. M., Vrieze, S., Wilson, S., & Rhee, S. H. Change in substance use following COVID-19 in parents: A natural experiment in a longitudinal twin family study. In preparation, anticipated submission Fall 2025. (*co-first authors)

BOOK CHAPTERS

Stern, E.F.., Pittenger, C., Kelmendi, B. (2020). Psilocybin for the treatment of major depressive disorder. In Interventional Psychiatry. Oxford Press.

CONFERENCE POSTERS AND ABSTRACTS

- **Stern, E.F..,** Rhee, SH., Reynolds, C., Wadsworth, S., Hewitt, JK., Corley, R., Whisman, MA. *Genetic and Environmental Influences on the Covariation between subjective well-being, eudaimonic well-being, and substance use.* Behavioral Genetics Association Annual Meeting. June 2024. London, United Kingdom.
- **Stern, E.F..,** Ellingson, J., Schaefer J., Corley, R., Hopfer C., Stallings M., Wall, T., Rhee, SH. *Associations between cannabis use, major depressive disorder, and suicidality: A clinical longitudinal sibling study.* Behavioral Genetics Association Annual Meeting. June 2024. London, United Kingdom.
- **Stern, E.F..,** Rhee, SH., Whisman, MA. *Parental Marital Discord and Adolescent Psychopathology in a United States Probability Sample.* ABCT Annual Convention. November 2023. Seattle, Washington. Accepted, did not attend.
- **Stern, E.F..,** Schaefer, J*, Ellingson, J*., Zellers, S., Corley, RP., Elkins, I., Hewitt, JK., Hopfer, C., Ianoco, WG., Klimes-Dougan, B., Malone, SM., McGue, M., Rhee, SH., Ross, M., Vrieze, S., Wilson, S. *Cannabis use and suicidality: A multi-site, co-twin control study from adolescence through middle adulthood.* Society for Research in Child Development Biennial Meeting. March 2023. Salt Lake City, Utah. (*co-first authors on publication)
- Lichenstein, S. D., Manco, N., Cope, L. M., Egbo, L., Garrison, K. A., Hardee, J., Hillmer, A. T., Reeder, K., **Stern, E.F.**., Worhunsky, P., Yip, S. W. (2021, September). *Systematic Review of Structural and Functional Neuroimaging Studies of Cannabis Use in Adolescence: Evidence from 90 studies and 9,441 participants*. Accepted for late-breaking poster presentation at the FLUX 2021 Virtual Congress, Virtual Meeting.
- Kelmendi, B., **Stern, E.F..** (2020, December). Examining the acute effect of psilocybin in the treatment of treatment-resistant OCD symptoms. American College of Neuropsychopharmacology Annual Meeting. Virtual meeting.
- **Stern, E.F..** (2020, July). The psychosocial and neurodevelopmental impact of prenatal cannabis exposure: insights from a computational approach. Yale Child Study Center Colloquium Series, New Haven, CT.
- **Stern E.F..** (2017, May). From cells to neurons: The migration patterns and functional implications of adult olfactory bulb neurogenesis. Mid-Maine Scientific Conference. Bar Harbor, Maine.
- **Stern E.F..,** Thurston, O., Johnson, M. (2016, December). The effect of personality characteristic and own-age bias on face memory in children. Colby Language Arts Symposium, Waterville, ME.

INVITED TALKS AND PRESENTATIONS

Reiselbach, M., Al Majid, F., Gresko, S., **Stern, E.F.**., Corley, R., Hewitt, J., Rhee, SH. *Longitudinal Examinations of Biological and Social Contextual Factors: Predictions to Adolescent Anxiety and Depression*. Society for Research in Child Development Biennial Meeting. March 2023. Flash Talk Session. Salt Lake City, Utah.

Stern, E.F., Moser, A. Harnessing Interdisciplinary Tools to Advance Mental Health and Treatment Accessibility. Coloradan Conversations. February 2023. Boulder, Colorado.

RELEVANT RESEACH EXPERIENCE

Graduate Student Researcher

University of Colorado Boulder, *Institute for Behavioral Genetics*

August 2021 - Present

Supervisor: Soo Hyun Rhee, PhD

Research interests include genetic, environmental, and biological influences on brain development contributing towards risk for development of co-occurring substance use and psychological disorders.

Diagnostic Assessor and Clinical Interviewer

August 2022 - Present

University of Colorado Boulder, Research on Affective and Developmental Psychopathology

- Worked with adolescents and young adults aged 17- to- 25-years old who are at risk for, or diagnosed with, bipolar or unipolar mood disorders. Common comorbid presenting issues include anxiety disorders, substance use disorders, and eating disorders.
- Trained to administer a series of clinical batteries including the SCID-IV/SCID-5 for the DSMIV/DSM-5,
- Longitudinally tracked clinical symptom progression at 6-month follow-ups, and measures to assess clinical severity of current mood symptoms
- Trained to assess suicidality risk with currently depressed patients, in accordance with study protocol
- Supervised junior clinicians with differential diagnosis considerations

Supervisors: Dr. Roselinde Kaiser, Ph.D.

Post-Graduate Research Associate, Yale University School of Medicine

2020 - 2021

OCD Research Clinic, Connecticut Mental Health Center, Clinical Neuroscience Research Unit

- Coordinated a Phase 2 Clinical Trial investigating the efficacy of psilocybin administration for individuals with treatment refractory OCD
- Trained and ran sessions as a psychedelic facilitator for a 5-day inpatient clinical trial
- Trained and independently administered the Yale-Brown Obsessive-Compulsive Scale (YBOCS)
- Trained and independently administered the Mini International Neuropsychiatric Interview (MINI)
- Conducted in depth phone intakes with potential treatment refractory OCD participants
- Ran study follow-up interviews and measures for up to 6 months after participants' inpatient stay

Supervisors: Benjamin Kelmendi, MD, Christopher Pittenger, MD, Ph.D.

Graduate Research Fellow, Yale University School of Medicine

2019 - 2020

Department of Psychiatry and Child Study Center, Yale Imaging and Psychopharmacology Laboratory

- Coordinated an MRI study focused on understanding neural changes following Buprenorphine administration for opiate-dependent populations
- Selected measures, cleaned and organized mass data download (n=1,136 out of N=11,876) from NIMH's Adolescent Brain Cognitive Development (ABCD) study
- Designed computational analysis plan and completed custom MATLAB analyses scripts to develop seven independent models using support vector machine classification algorithm (linear SVM) with tenfold cross-validation
- Wrote thesis examining the psychosocial and neurodevelopmental effects of prenatal cannabis exposure in late childhood

Supervisors: Sarah Yip, Ph.D., Sarah Lichenstein, Ph.D.

CLINICAL TRAINING

Doctoral Clinical Psychology Extern

July 2024 - Present

Children's Hospital Colorado, Department of Physical Medicine and Rehabilitation Setting: Child and adolescent rehabilitation department within a medical hospital

Population: Children and adolescents with rehabilitation-related medical conditions and their families. Treated patients from Colorado, Wyoming, New Mexico, Nebraska, and Texas. Common presenting concerns include anxiety, depression, trauma, and other psychopathology related to medical condition adjustment and/or coping. Training:

- Complete brief medical interventions in multi-disciplinary clinics (e.g. Spina Bifida/Spinal Cord Defects Clinic, Acquired Brain Injury Clinic), working alongside other medical providers as a part of a comprehensive care team.
- Provide short-term (on average 8-12 sessions) individual outpatient therapy to a weekly maximum caseload of six clients with varying diagnoses using evidence-based treatments
- Conducted neuropsychological assessments for children and adolescents presenting with a range of cognitive concerns, including memory, attention, concentration, organization, changes in personality
- Trained and completed assessment, treatment formulation, care coordination with other providers, feedback with clients and families, comprehensive integrative report writing
- Co-organized and co-led a monthly therapy group school aged children with rehabilitation related medical conditions
- Attend weekly individual supervision with a licensed clinician to review session recordings and facilitate further learning
- Attended weekly didactic series on a broad range of pediatric rehabilitation related topics

Child Assessment and Neuropsychology Trainee

August 2023 - Present

University of Colorado Boulder, Attention, Behavior and Learning Clinic

<u>Setting:</u> Child and adolescent learning and behavior clinic within a university psychology department <u>Population:</u> Children, adolescents, and their families in the community. Common presenting concerns include learning disabilities (reading, writing, and math), attentional problems, disruptive behavior problems, anxiety and mood disorders, and autism spectrum disorders.

Training:

- Conduct comprehensive psychodiagnostic, psychoeducational, and behavioral assessments
- Completed assessment, treatment formulation, comprehensive integrative report writing
- Provided clear feedback to parents regarding testing results
 - Evaluations help clients and families advocate for academic support services, Section 504
 Plans, and Individualized Education Plans (IEPs)

Supervisors: Dr. Nomita Chhabildas, PhD. and Dr. Laura Hink, PhD.

Adolescent Risk Assessment and Reporting On-call Clinician

July 2023 - Present

University of Colorado Boulder, Adolescent Brain Cognitive Development Study (ABCD)

Setting: University research study site

<u>Population:</u> Adolescents and young adults 15- to 18- years old and their parents/caregivers <u>Training:</u>

- On-call 20+ hours per month as a study clinician for 1) adolescents who self-endorse suicidal ideation, suicidal attempt, or trauma history on the CBCL or 2) for parents who endorse these symptoms on their child's behalf on the KSADS
- Complete the Columbia Suicide Severity Scale (CSSR-S) or an in-depth interview on the reported trauma experience with the adolescent or their parent to establish whether further immediate clinical triage or mandated reporting is necessitated
- Make reports to oversight agencies regarding risk for harm (i.e. Child Protective Services)
- Supervise junior clinical scientists who are administering clinical measures
- Attend 2x 1-hour supervision meetings with licensed clinical supervisors for didactic training and case consultation

Supervisors: Dr. Roselinde Kaiser, Ph.D. and Dr. Chelsea Kilimnik, Ph.D.

Adolescent DBT Skills Group Lead

August 2023 - June 2024

Fairview High School, Boulder, Colorado `

<u>Setting:</u> Public High School (Fall 2023) *and* Rene Crowne Institute (Spring and Summer 2024) <u>Population:</u> Community sample of 14- to 18-year-old high school students

Training:

- Independently led two sections of 10-12 students through an 8-week dialectical behavioral therapy (DBT) skills training course in Fall of 2023
- Collaboratively and interactively led classes on mindfulness, emotion regulation, distress tolerance, and interpersonal relationship skills using comprehensive handouts, activities, and homework assignments

- Developed classroom management skills targeted at effectively managing adolescent behaviors
- Co-leading an 18-week DBT skills training group for community adolescents self-, parent-, or teacher-identified as having clinically significant psychological distress or impairment

Supervisors: Dr. Julia Zigarelli, Ph.D.

Intellectual Assessment and Neuropsychology Trainee

August 2022 - May 2024

University of Colorado Boulder, Brain and Behavior Clinic

<u>Setting:</u> Neuropsychological practice within the university psychology department serving university students and indigent individuals

Population: Adolescents, adults, and older adults aged 17- to 75-years old

Training:

- Conducted psychodiagnostic assessments with adolescent and adults for learning disability (LD) and attention deficit hyperactivity disorder (ADHD)
 - o Evaluations help clients and obtain documentation of disability for academic accommodations
- Conducted neuropsychological assessments for a range of cognitive disorders, primarily related to memory loss, concentration concerns, difficulties in organization, or changes in personality
- Trained and completed assessment, treatment formulation, care coordination with other providers, feedback with clients and families, comprehensive integrative report writing
 - Evaluations helped support client applications for academic and workplace accommodations, social security disability, areas of cognitive decline important to continually assess

Supervisors: Emily Richardson, Ph.D.

Graduate Student Diagnostic Assessor and Therapist

August 2021 – August 2024

University of Colorado Boulder, Raimy Psychology Clinic

Setting: University psychology department clinic

<u>Population:</u> College students and community members aged 18- to 35-years old. Experience treating presenting problems including general life stress, academic concerns, interpersonal relationship difficulties, sexual identity exploration, attention deficit hyperactivity disorder, major depressive disorder, social anxiety disorder, generalized anxiety disorder, health anxiety, specific phobia, trauma-related and eating-related disorders.

<u>Therapeutic Modalities:</u> Dialectical Behavioral Therapy (DBT), Acceptance and Commitment Therapy (ACT), Cognitive Behavioral Therapy (CBT), Mindfulness-Based Cognitive Therapy (MBCT), Behavioral Activation (BA)

Training:

- Conducted four clinical intake assessments and completed the corresponding integrated reports
- Provided long-term individual outpatient therapy to a weekly maximum caseload of four clients with varying diagnoses using evidence-based treatments
- Attended weekly individual- and group-based supervision with a licensed clinician to review session recordings and facilitate further learning

Supervisors: Mark Whisman, Ph.D. (first year); Sona Dimidjian, Ph.D. (second year); Joanna Arch, PhD (third year).

Assessment Competency

Experienced in administration and interpretation of the following assessment instruments (alphabetized, *denotes administration with child/adolescent populations):

Psychodiagnostic and symptom assessment:

- ADHD DSM-5 Rating Scales (self-, parent-, and teacher-report)*
- AUDIT Alcohol Screening Test
- Autism Diagnostic Observation Schedule, Second Edition (ADOS-2) selected subtests*
- Beck Depression Inventory (BDI-SF)
- Behavioral Assessment System for Children, 3rd edition (BASC-3; child and adolescent self-, parent-, and teacher-report scales)*
- Dysfunctional Attitude Scale (DAS)
- Dyadic Adjustment Scale (DAS)
- General Anxiety Disorder-7 (GAD-7)
- Patient Health Questionnaire (PHQ-9)
- Readiness for Change Semi-Structured Interview

- Revised Children's Manifest Anxiety Scales 2nd Edition (RCMAS-2)*
- Structured Clinical Interview for DSM-IV Axis I Disorders (SCID-IV) and DSM-5 (SCID-5)
- University of Rhode Island Change Assessment Scale (URICA)

Suicidality Risk Assessment:

- Columbia Suicide Severity Rating Scale (CSSR-S)*
- Modified Scale for Suicide Ideation (MSSI)

General Cognitive:

- Weschler Abbreviated Scale of Intelligence (WASI-II)
- Weschler Adult Intelligence Scale (WAIS-IV)
- Weschler Intelligence Scale for Children, 5th edition (WISC-V)*

Neuropsychological:

- **Boston Clock Drawing**
- **Boston Naming Test**
- California Verbal Learning Test (CVLT-II)
- **Clock Drawings and Readings**
- Controlled Oral Word Fluency Test
- Delis Kaplan Executive Function System (D-KEFS) Trail making Test*
- Delis Kaplan Executive Function System (D-KEFS) Verbal Fluency Test*
- **Hooper Visual Organization Test**
- Luria Complex Motor Tasks
- Montreal Cognitive Assessment (MoCA)
- **NEPSY-II***
- Weschler Memory Scale (WMS-III and WMS-IV)
- Western Aphasia Battery
- Wisconsin Card Sorting Task (WCST)

Academic Achievement:

- Comprehensive test of Phonological Processing, 2nd Edition (CTOPP-2)*
- Gray Oral Reading Test, 5th Edition (GORT-5)*
- Nelson Denny Reading Test*
- Test of Word Reading Efficiency (TOWRE-2)*
- Weschler Individual Achievement Test, Fourth Edition (WIAT 4)*
- Woodcock Johnson Test of Achievement IV (WJ-IV)*

Malingering:

- Memory Validity Profile (MVP)*
- Test of Memory Malingering (TOMM)

Personality:

- Minnesota Multiphasic Personality Inventory (MMPI-2 and 3)
- NEO Personality Inventory (NEO-PI-3)

TEACHING EXPERIENCE

| Teaching Assistant |
|---------------------|
| August 2023 - Decei |

mber 2023 August 2022 – December 2022 January 2022 – May 2022 August 2021 – December 2021

January 2015 - May 2017 August 2014 - December 2015 August 2014 - May 2015

General Psychology (PSYC 1001), University of Colorado Boulder Research Methods in Clinical Psychology (PSYC4333), CU Boulder

Research Methods in Psychology (PSYC311), CU Boulder Biological Psychology (PSYC2012), University of Colorado Boulder

Biological Basis of Behavior (PS233), Colby College Logic and Argumentation (PL151), Colby College

Introduction to Psychology (PS111), Colby College

Grader

January 2024 – Present Abnormal Psychology (PSYC3303), University of Colorado Boulder August 2023 – December 2023 – Psychological Treatments (PSYC 4263), University of Colorado Boulder

SELECT GRADUATE COURSEWORK

January 2024 – Present Adult Psychopathology

August 2023 – Present Practicum in Clinical Psychology (ACT focus)

August 2023 – Present Child Assessment Practicum

August 2023 – December 2023 Adult Psychotherapy

August 2022 – August 2023 Practicum in Clinical Psychology (CBT/DBT/Behavioral Activation focus)

August 2022 – August 2023 Intellectual Assessment and Neuropsychology Clinical Practicum Introduction to Behavioral Genetics, University of Colorado Boulder

August 2022 – December 2022 Introduction to Neuroscience, University of Colorado Boulder

August 2021 – May 2022 General Statistics, University of Colorado Boulder

January 2022 – May 2022 Structural Equation Modelling, University of Colorado Boulder

January 2022 – May 2022 Physiological Genetics and Genomics, University of Colorado Boulder

August 2018 – December 2018 Neuroscientific Methods, University College London Affective Neuroscience, University College London

WORKSHOPS AND TRAININGS

October 2023 DBT for Suicidal Adolescents: With an Emphasis on Mindfulness and Validation

Instructor: Alec L. Miller Psy.D.

April 2023 Advanced Statistical Methods in Neuroimaging and Genetics

Instructor: Robert Welsh, Ph.D. and Anna Docherty, Ph.D.

September 2022 – Trauma Psychology: Empirical and Clinical Implications

December 2022 Instructor: Chelsea Kilimnik, Ph.D.