

Madeleine N. Goldberg

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EDUCATION

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| <i>University of Oregon</i>
Ph.D. Student, Developmental Psychology
Advisor: Dr. Jennifer H. Pfeifer | 2023-present |
| <i>University of Pittsburgh</i>
B.S., Psychology with Honors Distinction (Minors: Applied Statistics, Sociology)
Thesis: <i>The Effects of Pubertal Maturation and Hormones on Delayed Discounting in Early Adolescence</i>
Advisor: Dr. Cecile D. Ladouceur
GPA: 3.6 | 2017- 2021 |

RESEARCH EXPERIENCE

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| <i>Postbaccalaureate Intramural Research Training Award Fellow</i>
<i>Section on Behavioral Endocrinology, Section on Integrative Neuroimaging, National Institutes of Mental Health, National Institutes of Health, Bethesda, MD</i>
PI: Dr. Peter J. Schmidt; Dr. Karen F. Berman
Primary Mentors: Dr. Shau-Ming Wei, Staff Scientist; Dr. Katherine M. Cole, Postdoctoral Fellow | 2021- 2023 |
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- Co-lead research coordinator for *The NIMH Intramural Study on the Endocrine and Neurobiological Events Accompanying Puberty*, a longitudinal neuroimaging protocol elucidating the relationship between brain function, endocrine and metabolic events, age, and sex
 - Coordinate study visits for children and adolescents undergoing puberty (e.g., MRI scanning, scheduling neuropsychological testing and radiology appointments, and facilitating clinic appointments)
 - Perform multivariate analyses of fMRI data to determine the effects of adrenal androgen dehydroepiandrosterone sulfate (DHEAS) on reward-related brain function in prepubertal typically developing children, and construct spline model trajectories of longitudinal reward-related brain activation
 - Analyze longitudinal structural MRI data from typically developing children and adolescents to determine associations between rate of structural brain development and the tempo of pubertal development determined by Tanner staging
 - Collect, manage, and analyze structural and functional MRI data from typically developing children and adolescents undergoing puberty to elucidate the relationships between brain function, adrenal and gonadal hormones, age, and sex
 - Collect structural and functional MRI data and process surface and volumetric PET data from adult inpatients with schizophrenia as part of a longitudinal, double-blind medication withdrawal study
 - Collect and analyze menstrual data, antipsychotic medication dosage, and psychotic symptoms to investigate the effects of menstrual cycle phases on psychotic symptom severity in sample of female adults with schizophrenia
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| <i>Undergraduate Research Assistant</i>
<i>Cognitive-Affective Neuroscience and Development Lab, University of Pittsburgh, Pittsburgh, PA</i>
PI: Dr. Cecile D. Ladouceur | 2019- 2021 |
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- Conducted senior honors thesis on the effects of adrenal androgens, gonadal sex steroid hormones, and pubertal development on behavioral outcomes of a reward task in typically developing adolescents using secondary data analyses in SPSS and R
 - Administered computerized cognitive tasks targeting reward and emotional processing and facilitated neuroimaging appointments for study participants
 - Organized and managed data from actigraphy watches and neuropsychological testing and diagnostic interviews (i.e., CTQ, K-SADS-PL) to contribute to a comprehensive multimodal database
 - Recruited study participants from local communities

POSTERS & PRESENTATIONS

- Goldberg, M.N.**, Wei, S.M., Cole, K.M., Kippenhan, J.S., Gregory, M.D., Recto, C.A., Wilder, I.M., Wright, D.S., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2023) *Developmental Trajectory of Reward-Related Brain Activations in Typically Developing Children*. NIMH Intramural Julius Axelrod Symposium, Bethesda, MD.
- Goldberg, M.N.**, Wei, S.M., Cole, K.M., Kippenhan, J.S., Gregory, M.D., Kippenhan, J.S., Recto, C.A., Wilder, I.M., Wright, D.S., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2023) *Developmental Trajectory of Reward-Related Brain Activations in Typically Developing Children*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- Wright, D.S., Wei, S.M., Kippenhan, J.S., Gregory, M.D., Cole, K.M., **Goldberg, M.N.**, Recto, C.A., Wilder, I.M., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2023) *Developmental Trajectories of Working Memory-Related DLPFC and Hippocampal Recruitment across Puberty in Typically Developing Children*. Society of Biological Psychiatry Annual Meeting, San Diego, CA.
- Wilder, I.M., Wei, S.M., Kippenhan, J.S., Gregory, M.D., Cole, K.M., **Goldberg, M.N.**, Recto, C.A., Wright, D.S., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2023) *A Longitudinal Analysis of Pubertal Tempo and Myelination in Typically Developing Children*. Society of Biological Psychiatry Annual Meeting, San Diego, CA.
- Recto, C., Wei, S.M., Eisenberg, D.P., Kohn, P.D., Gregory, M.D., Czarapata, J.B., **Goldberg, M.N.**, Wilder, I.M., Schmidt, P.J., Berman, K.F. (2023) *Effect of Menstrual Cycle Phase on Presynaptic Dopamine Function in Healthy Women*. Society of Biological Psychiatry Annual Meeting, San Diego, CA.
- Kazi, F.T., Wei, S.M., Kippenhan, J.S., Gregory, M.D., Cole, K.M., **Goldberg, M.N.**, Recto, C.A., Wilder, I.M., Wright, D.S., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2023) *Sex Differences in Longitudinal Trajectories of Regional Cerebral Blood Flow During Child Development and Adulthood*. Society of Biological Psychiatry Annual Meeting, San Diego, CA.
- Goldberg, M.N.**, Wei, S.M., Cole, K.M., Martinez, P.E., Gregory, M.D., Kippenhan, J.S., Trevorrow, Z.H., Myers, O.T.T., Recto, C., Kohn, P.D., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2022) *Reward-related Brain Function and Puberty in Healthy Children*. NIMH Training Day, Bethesda, MD.
- Goldberg, M.N.**, Wei, S.M., Cole, K.M., Martinez, P.E., Gregory, M.D., Kippenhan, J.S., Trevorrow, Z.H., Myers, O.T.T., Recto, C., Kohn, P.D., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2022) *Correlation between reward-related brain function and serum dehydroepiandrosterone sulfate (DHEAS), and indicator of adrenarcheal development, in prepubertal children*. Society of Biological Psychiatry Annual Meeting, New Orleans, LA.
- Wei, S.M., **Goldberg, M.N.**, Cole, K.M., Martinez, P.E., Gregory, M.D., Kippenhan, J.S., Trevorrow, Z.H., Myers, O.T.T., Recto, C., Kohn, P.D., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2022) *Effects of Adrenarche on Reward-related Neural Processing in Prepubertal Children*. American College of Neuropsychopharmacology Annual Meeting, Phoenix, AZ.
- Eisenberg, D.E., Kohn, P.D., Gregory, M.D., Czarapata, J.B., Dickinson, D., Blackman, R.B., Recto, C. **Goldberg, M.N.**, Berman, K.F. (2022) *Striatal dopamine synthesis capacity and genetic liability for treatment-resistant schizophrenia in healthy adults*. American College of Neuropsychopharmacology Annual Meeting, Phoenix, AZ.
- Gouvea, A.E., Wei, S.M., Cole, K.M., Martinez, P.E., Gregory, M.D., Kippenhan, J.S., Trevorrow, Z.H., Myers, O.T.T., Recto, C., **Goldberg, M.N.**, Kohn, P.D., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2022) *Association of DHEAS, an indicator of adrenarcheal development, with brain function during an inhibitory control task in prepubertal children*. Society of Biological Psychiatry Annual Meeting, New Orleans, LA.
- Recto, C., Cole, K.M., Wei, S.M., Martinez, P.E., Gregory, M.D., Kippenhan, J.S., Trevorrow, Z.H., Myers, O.T.T., **Goldberg, M.N.**, Kohn, P.D., Nieman, L.K., Yanovski, J.A., Schmidt, P.J., Berman, K.F. (2022) *Effects of adrenarche and sex on neural function during perception of faces in prepubertal children*. Society of Biological Psychiatry Annual Meeting, New Orleans, LA.

HONORS & AWARDS

Promising Scholar Award, <i>University of Oregon</i>	2023
NIMH Training Day 3-Minute Talk Competition Finalist, <i>National Institutes of Health</i>	2022
Postbaccalaureate Intramural Research Training Award Fellow, <i>National Institutes of Health</i>	2021-2023
Magna Cum Laude, <i>University of Pittsburgh</i>	2021
Honors in Psychology Distinction, <i>University of Pittsburgh</i>	2021
Dean's List, <i>University of Pittsburgh</i>	2018- 2021

CLINICAL & VOLUNTEER EXPERIENCE

Clinical Shadowing 2022- 2023

Clinical Research Adult Inpatient Psychiatric Unit, National Institutes of Mental Health, National Institutes of Health, Bethesda, MD

Primary Mentors: Dr. Daniel P. Eisenberg, Medical Director; Dr. Rachael K. Blackman, Postdoctoral Clinical Fellow; Maria Tietcheu, Clinical Research Nurse Practitioner

- Observe staff psychiatrist and nurse practitioner round with adult inpatients diagnosed with schizophrenia on a locked psychiatric research unit
- Attend daily morning nursing report to discuss inpatient medical and behavioral health staff psychologist, physicians, and other relevant clinical staff

Schizophrenia Inpatient Clinical Program 2022- 2023

Clinical Research Adult Inpatient Psychiatric Unit, National Institutes of Mental Health, National Institutes of Health, Bethesda, MD

Primary Mentors: Dr. Ann Reifman, Inpatient Clinical Psychologist

- Participate in occupational and recreational groups with adult inpatients diagnosed with schizophrenia
- Attend weekly discussion of patient interaction with staff psychologist, physicians, and other clinical staff on inpatient schizophrenia unit

Student Behavioral Associate 2020- 2021

Adult Inpatient Dual Diagnosis Unit, UPMC Western Psychiatric Institute and Clinic, University of Pittsburgh, Pittsburgh, PA

Primary Mentors: Dr. Scott Lewis, Unit Director; Dr. Antoine B. Douaihy, Attending Psychiatrist; Dr. Hader A. Mansour, Attending Psychiatrist

- Supported and advocated for adults with co-occurring substance use and psychiatric disorders
- Documented mental status evaluations, suicidality, homicidality, and risk & protective factors
- Collaborated with multi-disciplinary medical team in the provision of physical care and clinical intervention
- Encouraged or assisted patients to perform activities of daily living and managed crisis situations therapeutically

Data Analytics Mentor 2020- 2021

Pittsburgh DataWorks DataJam, University of Pittsburgh, Pittsburgh, PA

Primary Mentors: Dr. Judy Cameron, Professor of Psychiatry, Neuroscience & OB/GYN

- Provided direction for searching public datasets and formulating hypotheses
- Taught high school students basic data analysis, interpretation, and visualization
- Created a beginner's tutorial on running ANOVA in R Studio

SKILLS

Neuroimaging: MRI/fMRI, AFNI, PET, DTI

Behavioral Science: Psychological Literary Review, Behavioral Coding, Data Entry, Neuropsychological Tests

Statistics: Data Analysis, IBM SPSS, R, Minitab, Jamovi, Bash Shell, Python

Pharmacological Familiarity (in relation to addiction): Alcohol Use Disorders, Opioid Use Disorders, Nicotine/Smoking Cessation, Co-occurring Disorders

PROFESSIONAL AFFILIATIONS

Flux Society

Cognitive Neuroscience Society

Society of Biological Psychiatry

Phi Eta Sigma

Psi Chi