

Curriculum Vitae
Peter M. Grund
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EDUCATION

2018 – 2022 **University of Minnesota - Twin Cities**, Minneapolis, MN
B.S. Psychology, Minor in Integrative Neuroscience
Cumulative GPA: 4.000 / 4.000
Summa Cum Laude, High Distinction

AWARDS, GRANTS, AND HONORS

2022 1st Place Poster Award – Minnesota Symposium on Addiction Neuroscience (\$200)

2022 UMN Diversity in Psychology Program Participant

- Psychology graduate school visitation program for high achieving minority students or students with physical/mental disabilities

2018 – 2022 University of Minnesota National Scholarship (\$40,000)

2018 – 2022 College of Liberal Arts Dean's List

- Awarded every semester for maintaining GPA of 3.66 or higher

2020 – 2022 University of Minnesota Undergraduate Honors Program

2020 University of Minnesota Undergraduate Research Opportunities Program Scholarship Award (\$1,555)

- Provides intensive, independent research experience and graduate school readiness

PUBLICATIONS

Klein, S., Collins, P.F., Lozano Wun, V., **Grund P.M.**, Luiana, M. *Frontostriatal Networks Exhibit Functional Segregation During Adolescence that Follows a Ventral-Dorsal Gradient: Developmental Trajectories and Longitudinal Associations*. Journal of Neuroscience. (In peer-review)

CONFERENCE PRESENTATIONS

Lozano Wun, V., Collins, P.F, Klein, S., **Grund, P.M.**, Luciana, M. *Within-person mismatch of reward*

- responsiveness and executive functioning: A longitudinal validation of the dual systems model from childhood to adulthood.* Research Society on Alcoholism. 2023.
- Grund, P.M.,** Klein, S., Collins, P.F., Luciana, M. *Greater Temporal Discounting is Associated with Higher Alcohol Consumption in Adolescents and Young Adults.* Presented at the Minnesota Symposium on Addiction Neuroscience, Minneapolis, MN. 2022.
- Klein, S., Collins, P.F, Alschuler, V., **Grund, P.M.,** Luciana, M. *Development of Corticostriatal Connectivity During Adolescence Supports a Dorsal-Ventral Gradient of the Human Striatum.* Flux Society Conference. 2022.
- Alschuler, V., Collins, P.F, Klein, S., **Grund, P.M.,** Luciana, M. *Dual-System Model as Indicated by Working Memory, Discounting, and Reward Sensitivity: Impacts of Age and Sex.* Annual Meeting of the Cognitive Neuroscience Society. 2022.
- Grund, P.M.,** Disner, S., Sponheim, S. *Genetic Influences on Verbal Memory Efficiency Following a Minor Traumatic Brain Injury.* Minnesota Undergraduate Psychology Conference. 2022.
- Grund, P.M.,** Klein, S., Collins, P.F., Luciana, M. *Temporal Discounting-based Cognitive Impulsivity in Adolescents Pre versus Post Substance Use Initiation.* Presented at the biennial meeting of the Society for Research on Adolescence, New Orleans, LA. 2022.
- Grund, P.M.,** Sponheim, S., Disner, S. *Role of the APOE Gene on Verbal Learning and Memory Following a Minor Traumatic Brain Injury.* VA Research Week. Minneapolis VA Health Care System. 2021.
- Grund, P.M.,** Klein, S., Collins, P.F., Luciana, M. *Frequent Marijuana Users Display Greater Delay Discounting Prior to Substance Use Initiation.* Minnesota Undergraduate Research Symposium. University of Minnesota. 2020.

CONFERENCES PRESENTED AT

- Minnesota Undergraduate Research Symposium – Virtual, December 11, 2020
- VA Research Week at the Minneapolis VA Health Care System – Virtual, June 8-10, 2021
- 11th Annual Traumatic Brain Injury Conference – Virtual, October 4-6, 2021
- Society for Research on Adolescence – New Orleans, LA, March 3-5, 2022
- Minnesota Undergraduate Psychology Conference– Saint Paul, MN, April 30, 2022
- Minnesota Symposium on Addiction Neuroscience – Minneapolis, MN, September 14, 2022
 - Poster won first place prize at for best poster amidst posters by Ph.D. students, post-docs, and academic faculty members

RESEARCH EXPERIENCE

May 2023 – Present **Clinical Research Coordinator (Researcher 2), Department of Neurology**
University of Minnesota – Twin Cities, Minneapolis, MN
PIs: Matthew Johnson, Ph.D., Jing Wang, Ph.D.

May 2022 – May 2023 **Laboratory Coordinator (Researcher 1), Brain & Behavioral Processes Lab**
University of Minnesota – Twin Cities, Minneapolis, MN
PI: Monica Luciana, Ph.D.

- Trained undergraduate and graduate students in the administration of neuropsychological tasks.
- Oversaw participant recruitment for two studies and maintains secure recruitment databases that includes private medical information.
- Scheduled behavioral and imaging sessions, including coordination among several team members and research centers outside of the Department of Psychology, such as the Department of Pharmacology (Translational Clinical Neuropharmacology Lab) and the Department of Radiology (Center for Magnetic Resonance Imaging).
- Conducted neuropsychological assessments of healthy and clinical samples.
- Assisted with behavioral and neuroimaging data analyses using SPSS, R, and FSL/FreeSurfer programs.
- Managed the official lab webpage, summarizing lab research projects, news, publications, participant resources, and contact information.

September 2019 – **Undergrad Research Assistant, Brain and Behavioral Processes Lab**
May 2022 **University of Minnesota – Twin Cities, Minneapolis, MN**
PI: Monica Luciana, Ph.D.

- Assisted with behavioral testing for a study of reward motivation and executive function in college students.
- Trained other undergraduate research assistants on study protocols.
- Led 1-2 lab meetings per semester focusing on relevant research articles or recent data analyses.

July 2020 – **Health Scientist, Cognition and Brain in Psychopathology Lab**
November 2021 **Minneapolis Veterans Affairs Health Care System, Minneapolis, MN**
PIs: Seth Disner, Ph.D., Scott Sponheim, Ph.D.

- Worked directly under Staff Psychologist Dr. Seth Disner.
- Analyzed veteran medical records to determine eligibility in study relating to traumatic brain injury rehabilitation.

July 2023

- Conducted in-depth phone screenings for all participants to ensure study eligibility.
- Collected DNA samples from veterans for genomic analysis.
- Participated in TBI outpatient rounds and consensus meetings.
- Participated in TBI journal and discussion club, attended weekly lab meetings, and read academic papers.
- Extended work for Summa Cum Laude level Honors Thesis: *Genetic Influences on Verbal Memory Efficiency Following a Mild Traumatic Brain Injury*

June 2020 –

Independent Research Project

Present

University of Minnesota – Twin Cities, Minneapolis, MN

Supervisor(s): Monica Luciana, Ph.D., Samuel Klein, M.S.

Project: Longitudinal Effects of Alcohol and Cannabis Use on Adolescent Impulsivity

- Received a UROP award from the Office of Undergraduate Research in June 2020 to conduct a longitudinal analysis of cognitive impulsivity across adolescence in a substance using sample.
- Presented findings at Minnesota Undergraduate Research Symposium, Society for Research on Adolescence, and the Minnesota Symposium on Addiction Neuroscience, where I received the “Best Poster Award”.
- Currently writing up a manuscript for submission to an academic journal.

TEACHING EXPERIENCE

Fall 2020 –

Teaching Assistant, Human Neuroanatomy (NSCI 2101)

December 2021

University of Minnesota – Twin Cities, Minneapolis MN

Supervisor(s): Maureen Riedl, Ph.D., Martin Wessendorf, Ph.D.

- Prepared and guided students through sheep brain dissections.
- Assisted students in identifying major brain regions in the intact brain, half brain, dissected brainstem, and Nissl slides of human specimens.
- Lead several human cadaver labs in which I reviewed the medical history of the person, removed the skin and skull to expose the brain, severed cranial nerves to lift brain out of the skull, showed anatomy of the meninges and the anatomical relationship between the brain and rest of the body (particularly the major arteries, veins, cranial nerves, foramina, and sinuses).
- Taught students about the ventricles, the flow of cerebrospinal fluid, the major arteries that supply blood to the brain and spinal cord, differences in cellular structure across brain regions,

July 2023

membrane potential, the somatosensory and motor pathways, mechanosensation, and the visual and auditory systems.

- Prepared solutions and assisted in Prussian blue brain section staining.
- Attended weekly meetings with the instructor to discuss course progress, challenges, and opportunities for improvement.
- Ensured compliance with safety protocols and regulations during lab sessions.

LEADERSHIP AND ADVOCACY

Summer 2023

Voting Board Member, Pedestrian Advisory Committee

City of Minneapolis, MN

- The Pedestrian Advisory Committee advises the Mayor and the City Council on policies, programs, and actions for improving pedestrian safety, mobility, accessibility, and comfort; for promoting walking for transportation, recreation, and health purposes; and for strengthening the linkage between the pedestrian environment and public transportation.

Spring 2023

Patient Advocate, Southeast Seniors

Minneapolis, MN

- Provided transportation for seniors who lacked personal means, enabling them to attend medical appointments.
- Compiled comprehensive notes during appointments to provide to the senior's healthcare team for detailed care planning.
- Acted as a representative for seniors during medical appointments, ensuring their concerns were clearly communicated and understood by the provider.
- Assisted seniors in comprehending medical advice or suggestions from healthcare providers and provided support to ensure adherence to prescribed treatment plans.

Spring 2023

Board Member, Citizen Review Council

Government of Chisago County, MN

- Appointment approved by both the Chisago County Board of Commissioners and the Commissioner of the Department of Human Services of the State of Minnesota.
- The purpose of the Citizen Review Panel is to facilitate citizen participation and provide opportunities for members of the community to play an integral role in ensuring that federal, state, and county child protection systems protect children from abuse and neglect and meet the permanency needs of children.

July 2023

- Examine the practices of the county and state child protection agencies to evaluate if the social work practices protect children from abuse and neglect.
- Advocates for resources and offers recommendations to address the disproportionate number of children of color involved in the child protection system.
- Participate in the Child and Family Services Review (CFSR) process.
- Analyze trends and provide valuable insights that those working within the system may miss, as well as provide feedback on what is or is not working.
- Monitor the extent to which the Minnesota Department of Human services is fulfilling child protection responsibilities in accordance with its child Abuse Prevention and Treatment Act (CAPTA) 5 Year Plan, as required by the federal CAPTA.

Spring 2023

Panelist, PSY 4994V Honors Thesis Panel

University of Minnesota – Twin Cities, Minneapolis MN

Supervisor(s): Charles Fletcher, Ph.D.

- Invited to share with current honors students enrolled in PSY 4994V (Honors Research Practicum) advice about how to write a summa-level thesis.

Fall 2021

Panelist, Psych Event: How to Get Started with UROP

University of Minnesota – Twin Cities, Minneapolis MN

Supervisor(s): Mary Simonsen

- Provided University psychology undergraduates with advice on how to begin to pursue formal research opportunities, such as how to find a faculty mentor, completing the application process, and useful prior training and classes.

Fall 2020

Psychology Undergraduate Student Advisory Council Member

University of Minnesota – Twin Cities, Minneapolis MN

Supervisor(s): Mary Simonsen

- Connected Undergraduate Psychology students to each other and Department leadership with a focus on making changes necessary to support learning and engagement in a more intellectually diverse climate.

SKILLS

- **Programming languages:** R (advanced), jsPsych (basic), HTML (basic)

July 2023

- **Computer programs:** Git/GitHub, Microsoft and Google suites, Statistical Package for the Social Sciences (SPSS), Adobe Illustrator, Qualtrics
- **Neuropsychological assessment:** Rey Auditory Verbal Learning Test, Digit Span, Cambridge Neuropsychological Test Automated Battery (CANTAB), North American Adult Reading Test Revised (NART-R), Grooved Pegboard, Controlled Oral Word Association Test (COWAT), an in-house semi-structured substance use interview, ePrime computer tasks

REFERENCES

Monica Luciana, Ph.D.

Professor/Former Chair of the Department of Psychology, University of Minnesota

Phone: (612) 626-0757

Email: lucia003@umn.edu

Maureen Riedl, Ph.D.

Lab Director, NSCI 2101 Human Neuroanatomy, Department of Neuroscience, University of Minnesota

Phone: (612) 624-4436

Email: riedl003@umn.edu

Seth Disner, Ph.D.

Staff Clinical Psychologist, Minneapolis V.A. Medical Center

Assistant Professor of Psychiatry, University of Minnesota

Email: disne014@umn.edu

Marina Bryants, CCPR

Clinical Research Coordinator, Department of Neurology, University of Minnesota

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