

Kayla M. Moehn
Curriculum Vitae
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EDUCATION

New Mexico State University, Las Cruces, NM **Expected May 2023**
B.S. in Genetics & Biotechnology, B.A. in Philosophy; Minor in Biochemistry
GPA: 4.0

RESEARCH EXPERIENCE

NIH ENDURE Research Scholar in Avian Behavior Lab **Jan 2021-present**

- Advisor: Dr. Timothy Wright, *New Mexico State University, Las Cruces, NM*
- Investigating the effects of stress on vocal learning in the budgerigar.
- Skills: immunohistochemistry, confocal microscopy, brain extraction, cryostat slicing, Nissl staining, DNA and RNA extraction, PCR, qPCR, blood sampling, CORT assays, avian behavioral tests
- 15 hours/week

Princeton Neuroscience Institute Summer Intern in Stress Lab **June 2022-July 2022**

- Advisor: Dr. Elizabeth Gould, *Princeton University, Princeton, NJ*
- Investigated the effects of early maternal separation on memory and plasticity in the mouse brain.
- Skills: immunohistochemistry, confocal microscopy, cryostat slicing, mounting, ImageJ, and elevated plus maze tests
- 40 hours/week

NIH ENDURE Research Scholar in Developmental Biology Lab **June 2021-July 2021**

- Advisor: Dr. Emily Bates, *University of Colorado Anschutz Campus, Aurora, CO*
 - Investigated the effects of nicotine exposure during pregnancy on limb development in embryonic mice
 - Skills: stereomicroscopy, ImageJ, vibratome slicing, embryo extraction, and Excel
 - 40 hours/week
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POSTER PRESENTATIONS

Moehn, K., Gore, I., Gould, E. Early life adversity influences on GABBA-A delta subunits in the ventral hippocampus and avoidance behavior. Princeton Neuroscience Institute Internship Summer Symposium, July 2022, *Princeton University, Princeton, NJ*

Moehn, K., Villalba, A., Wright, T. Immunohistochemistry to Study the Effects of Chronic Stress on Glucocorticoid and Mineralocorticoid Receptors in the Budgerigar Brain. Undergraduate Research and Creative Arts Symposium, April 2022, *New Mexico State University, Las Cruces, NM*

Moehn, K., Burns, R., Ulmer, K. Differences Between Male and Female Contact Calls in Budgerigars. Animal Communication Class Symposium, April 2022, *New Mexico State University, Las Cruces, NM*

Moehn, K., Ozekin, Y., Bates, E. Investigating the effects of vaping and nicotine's block of Kir2.1 on humerus and digital development in embryonic mice. American Society for Biochemistry and Molecular Biology National Poster Session, April 2022, *Experimental Biology National Conference, Philadelphia, PA*

Moehn, K., Ozekin, Y., Bates, E. Investigating the effects of vaping and nicotine's block of Kir2.1 on humerus and digital development in embryonic mice. Southwest American Society for Biochemistry and Molecular Biology Regional Symposium, Sept 2021, *New Mexico State University, Las Cruces, NM.*

Moehn, K., Ozekin, Y., Bates, E. Investigating the effects of vaping and nicotine's block of Kir2.1 on humerus and digital development in embryonic mice. Undergraduate Summer Research Symposium, July 2021, *University of Colorado, Anschutz Campus, Aurora, CO.*

ORAL PRESENTATIONS

Moehn, K., Gore, I., Gould, E. Early life adversity influences on GABBA-A delta subunits in the ventral hippocampus and avoidance behavior. Leadership Alliance National Symposium, July 2022, *Hartford, CT.*

PUBLICATIONS

Ozekin, Y.H., Saal, M.L., Hernandez-Pineda, R., **Moehn, K.,** Ordonez Erives, M., Delgado Figueroa, D., Frazier, C., Königshoff, M., Bates, E.A., & Vladar, E.K. Intrauterine expose to nicotine through maternal vaping disrupts embryonic lung and skeletal development. Submitted to *Developmental Biology.*

TEACHING

Teaching Assistant, BIOL 2610L - Biodiversity, Ecology, and Evolution Lab Fall 2022

Teaching Assistant, PHIL 1115G – Introduction to Philosophy Fall 2021

LEADERSHIP

Vice President, SOPHIA Philosophy Club, *New Mexico State University* Dec 2021-present

Mentor, Pete's Pathfinder's, *New Mexico State University* Fall 2021

Chief Justice, *Associated Students of New Mexico State University* June 2021-May 2022

Associate Justice, *Associated Students of New Mexico State University* Aug 2020-May 2021

COMMUNITY OUTREACH

Trevor Chat/Text Crisis Counselor June 2022-present

Academic Misconduct Panel Member April 2021-present

It's On Us Event Coordinator Mar 2021-Apr 2022

Student Advocacy Board Member Sept 2020-May 2022

AWARDS AND DISTINCTIONS

Scholarship, June 2022: Montes-Greiner Scholarship for Philosophy/STEM Majors, New Mexico State University.

Scholarship, Nov, 2021: International Brain Research Organization Conference Scholarship (2021 International Neuroethics Society Annual Meeting)

Top Poster Award, Sept 2021: Southwest American Society for Biochemistry and Molecular Biology Research Symposium, New Mexico State University.

Top Poster Award, July 2021: Undergraduate Summer Research Symposium, University of Colorado, Anschutz Campus.

NIH ENDURE BRAiN Scholar Jan 2021-present

NSF REU Scholar June 2022-July 2022

Conroy Scholar, New Mexico State University Fall 2019-present

Crimson Scholar, New Mexico State University Fall 2019-present

Dean's List, New Mexico State University Fall 2019-present

PROFESSIONAL AFFILIATIONS

Society for Integrative and Comparative Biology October 2022-present

International Neuroethics Society October 2021-present

Society for Neuroscience July 2021-present

American Society for Biochemistry and Molecular Biology April 2021-present
