

Noah Leonardo

(248) 982 – 2937 noahleonardo@gmail.com

EDUCATION

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|-----------------------------------------------------------|-----------------------------------|---------------|
| Bachelor of Science - Biochemistry Minor in Philosophy | University of Michigan - Dearborn | 2015-2019 |
| Doctor of Philosophy – Psychology | University of Michigan | 2022- Present |

RESEARCH INTERESTS

Dissect interactions of corticolimbic and mesolimbic circuits in pursuit of new unifying perspectives on how we understand the causal relationships of motivation, cognition, and the mind-body problem.

RESEARCH EXPERIENCE

RESEARCH LABORATORY TECH INTERMEDIATE

PRINCIPLE INVESTIGATOR: JILL B. BECKER 2019 - 2022
 The University of Michigan Medical School, Department of Psychiatry,
 Michigan Neuroscience Institute, Ann Arbor, MI
Responsible primarily for development of experimental methods and data analysis for Fast Scan Cyclic Voltammetry experiments, immunohistochemistry, and computational social behavior assays. Contributed scientifically to multiple ongoing dissertations.

UNDERGRADUATE RESEARCHER

PRINCIPLE INVESTIGATOR: SHEILA R. SMITH 2017-2019
 The University of Michigan – Dearborn College of Arts, Sciences, and Letters, Natural Sciences Department Biochemistry Program, Dearborn, MI
Developing floating protein cyclic voltammetry procedures on copper ligated riboflavin binding protein using a self-assembling monolayer.

HONORS AND AWARDS

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| DEPARTMENT OF NATURAL SCIENCES DISTINGUISHED RESEARCH AWARD | 2019 |
| DEPARTMENT OF NATURAL SCIENCES GRADUATE WITH UNIVERSITY HONORS AWARD | 2019 |
| CERTIFICATE OF MERIT IN SARGON PARTNERS UNDERGRADUATE RESEARCH SHOWCASE | 2018 |

PUBLICATIONS

Quigley, J.A., Logsdon, M., Turner, C., Gonzalez, I, Leonardo, N., Becker, J.B. Sex differences in vulnerability to addiction. *Neuropharmacology*, 2021. Feb 7:108491.
 doi: 10.1016/j.neuropharm.2021.108491.

Gonzalez, I.L., Turner, C.A., Patel, P.R., Leonardo, N., Luma, B.D., Richie, J.M., Cai, D., Chestek, C.A., Becker, J.B., 2022. Sex Dependent Regional Differences in Dopamine Release Determined In Freely Moving Rats: Multichannel Carbon Fiber Electrode for Chronic Detection of Dopamine in the Nucleus Accumbens and Dorsal Striatum by Fast Scan Cyclic Voltammetry. Manuscript in preparation.

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POSTERS

Leonardo, N., Cai, D., Patel, P.R., Chestek, C.A., Becker, J.B., IN SITU VALIDATION OF FAST-SCAN CYCLIC VOLTAMMETRY MULTIELECTRODES. Poster to be presented at: Neuroscience 2022, Society for Neuroscience. 2022 Nov 15-18. San Diego, CA.

Gonzalez, I.L., Leonardo, N., Luma, B.D., Patel, P.R., Jacklic, D.C., Chestek, C.A., Becker, J.B., The effects of social housing on social behavior and stimulated DA release after methamphetamine exposure. Poster to be presented at: Neuroscience 2022, Society for Neuroscience. 2022 Nov 15-18. San Diego, CA.

Turner, C.A., Luma, B.D., Leonardo N., Patel, P.R., Chestek, C.A., Becker, J.B., ACTIVATION OF G-PROTEIN COUPLED ESTRADIOL RECEPTOR-1 MODULATES STIMULATED DOPAMINE RELEASE IN THE DORSAL STRIATUM OF MALE RATS. Poster to be presented at: Neuroscience 2022, Society for Neuroscience. 2022 Nov 15-18. San Diego, CA.

Leonardo, N., Smith, S., Determination of the reduction potential of copper bound Riboflavin Binding Protein using Cyclic Voltammetry. Poster presented at: ACS Spring National Meeting and Exposition. 2019 Mar 31-April 4. Orlando, FL.

Leonardo, N., Smith, S., Determination of Reduction Potential of Copper Bound-Riboflavin Binding Protein. Poster presented at: University of Michigan Sargon Partners Research Showcase. 2018 Apr 8. Dearborn, MI.

Leonardo, N., Smith, S., Investigation of Copper Cofactor Ligand Environment of Riboflavin Binding Protein using Cyclic Voltammetry. Poster presented at: Ohio Inorganic Weekend. 2018 Nov 9. Athens, OH.

RELEVANT SKILLS

Free floating immunohistochemistry
 Multiplex confocal microscopy using Zeiss LSM 780
 Cryostat sectioning of perfused brain tissue
 Operating self-administration chambers
 Regulation and administration of scheduled chemicals
 Euthanasia and Dissection of Rats
 Network analysis of longitudinal data in R
 Signal processing and data analysis in MATLAB
 Computational Behavioral analysis using deep learning in python
 in vivo Fast scan cyclic voltammetry

TEACHING EXPERIENCE

Instructing graduate students in rodent surgery preparation, craniotomy, and post operative care.
 Instruction of undergraduates in lab maintenance and experimentation including rodent handling, data organization, and rodent fast-scan cyclic voltammetry and self-administration testing procedures.