

Robert J. Roy

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Education

Ph.D. Student in Psychology, Present. University of Nebraska-Lincoln, Lincoln, NE.

Discipline: Neuroscience and Behavior

GPA: 4.00

Master of Science, May 2020. Saint Joseph's University, Philadelphia, PA.

Experimental Psychology

GPA: 4.00

Bachelor of Arts, *Magna Cum Laude*, May 2019. Saint Joseph's University, Philadelphia, PA.

Majors in English and Psychology

Minor in Behavioral Neuroscience

GPA: 3.78

Research and Professional Experience

Graduate Student Researcher

NeuroCognitive Translation Lab, University of Nebraska-Lincoln (2023 – Present)

Principle Investigator: Dr. Nicholas Hubbard

- Conducted research visits for a large fMRI study on methamphetamine use
- Wrote scripts for imaging and analysis workflows
- Instituted a REDCap database system for the methamphetamine study
- Reviewed literature to generate new research ideas
- Prepared drafts for publication
- Completed statistical analyses for publications

Becker Neuroendocrinology Lab, Saint Joseph's University (2019 - 2021)

Principle Investigator: Dr. Elizabeth Becker

Master of Science Thesis: Pair bond formation in the California mouse

- Conducted a behavioral assay to measure pair bond formation
- Collected brains via transcardial perfusion, peripheral blood, and vaginal cell samples for cell quantification
- Organized and analyzed behavioral data collected from experimentation
- Recruited and supervised a team of graduate and undergraduate students to aid with testing

Clinical Research Coordinator II

Early Psychosis Intervention Clinic, Tulane School of Medicine (2021- Present)

Clinic Directors: Dr. Ashely Weiss & Dr. Serena Chaudhry

- Implemented NIMH funded R34 grant by establishing the CSC-ONE Learning Health System as part of clinic workflow as well as conduct the study “Comparison of Coordinated Specialty Care Delivered through Telehealth and Clinic-Based Models: A Pilot Study”
- Obtained IRB approval for a continues chart review study allowing for all clinic data to be used for research purposes
- Created a master REDCap database for clinic data to be used in research by the clinic, medical students, and graduate students
- Coordinated training for clinical staff and student researchers for use of R34 clinical tools for clinical use and research purposes
- Conducted a study on the long-term effects of telehealth during the COVID-19 pandemic
- Published a literature review on the absence of contemporary treatment models for psychosis in social work journals
- Provided editing, guidance, and data analysis on manuscripts in preparation for publication

Louisiana Clinical and Translational Sciences Center, Tulane School of Medicine (2020 - 2021)

Supervisor: Elvia Haynes

- Recruited patients through various cold-contact methods to participate in Janssen’s Phase III Covid-19 vaccine study
- Collected relevant medical history and vitals to determine eligibility for study
- Assisted patients on training and completing eDiary entries for symptom monitoring
- Processed blood, saliva, and nasal swab samples for local and central lab analysis
- Entered PHI into digital system for sponsor review

Summer Scholar

Becker Neuroendocrinology Lab, Saint Joseph’s University (Summers 2018, 2019)

Project Topic: Mating practices of the California mouse

- Awarded a stipend to conduct independent research over the summer for presentation
- Formulated and executed research project as head of a team of researchers
- Interpreted data into meaningful results for presentation to faculty and sponsors
- Presented data at scientific seminars for review and discussion with peers in various scientific fields

Undergraduate Research Assistant

Becker Neuroendocrinology Lab, Saint Joseph's University (2016 – 2019)

Principle Investigator: Dr. Elizabeth Becker

- Assisted in graduate research projects covering an array of behavioral and tissue assays
- Managed a large colony of rodents to ensure animal well-being and compliance with federal standards
- Collected data on operationalized behaviors for statistical analysis
- Weaned rodent offspring into appropriate cages within a time sensitive period

Lab Manager

Becker Neuroendocrinology Lab, Saint Joseph's University (2017 - 2018)

Principle Investigator: Dr. Elizabeth Becker

- Maintained lab functionality through keeping materials regularly supplied
- Integrated and trained new lab members in ethics and basic animal handling
- Documented mouse colony population levels for experimental use

Scientific Publications

In Print

Weiss, A., Chaudhry, S., Atiya, W., Long, S., **Roy, R.**, & Mojtabai, R. (2025). Reducing duration of untreated psychosis: Strengthening the case for early detection campaigns. *Psychiatric Services*, 00–00. <https://doi.org/10.1176/appi.ps.20240061>

Roy, R., Hammerdahl, E., Sage, A. and Becker, E.A. (2025), Mating May Enhance Rapid Formation of Stable Pair Bonds in the Monogamous California Mouse. *Ethology* e13545. <https://doi.org/10.1111/eth.13545>

Roy RJ, Parvaz MA, Wakabayashi KT, Blair RJR, Hubbard NA. Methamphetamine-related working memory difficulties underpinned by reduced frontoparietal responses. *Addiction Biology*. 2024; 29(10): 1-13. doi:10.1111/adb.13444

Chaudhry, S., **Roy, R.**, Mansourian, K., Weiss, A., Breier, A. (2023). Psychosis, Telehealth, and COVID-19: Engagement and Hospitalization Pre and Peri- Pandemic. *Disaster Medicine and Public Health Preparedness*, 1 – 6. <https://doi.org/10.1017/dmp.2023.144>

Chaudhry, S., **Roy, R.**, Weiss, A., & Hansel, T. (2022). A systematic review of psychosis in social work literature. *Social Work in Mental Health*, 1–13. <https://doi.org/10.1080/15332985.2022.2029667>

Valentino, A., **Roy, R.**, & Becker, E. A. (2021). Reproductive success diminished following mate loss for females but not males in a monogamous rodent. *Behavioural Processes*, 188. <https://doi.org/10.1016/j.beproc.2021.104415>

Under Review

Schwarb, H., **Roy, R.J.**, Shaefer, AL., Blair RJR., & Hubbard NA. (*Under Review*). Changes in bilateral hippocampal volume with chronic methamphetamine use are related to use frequency

In Prep

Roy, R.J., Decker, AL., & Hubbard NA. (*In prep*). Reward tracking predicts choice behavior in people who use methamphetamine.

Reviews

Ming M., Tiancheng Y., Zhi Q., Peng Z., Mudi Z., Jianye G., Ningqing H., Mengqian L., Kaixi Z., Qian C., Jianhuai C., & Guoxiang W. (*In prep*) Abnormal regional brain activity associated with relapse in early abstinent methamphetamine-dependent individuals.

Teaching Experience

Behavioral Neuroscience Teaching Assistant

Psychology Department, Saint Joseph's University (Spring 2019) Instructor:

Dr. Elizabeth Becker

- Mentored undergraduates in animal care and behavioral testing
- Provided guidance and insight into designing an experiment
- Supervised and graded undergraduate surgical techniques and writing abilities
- Presented on microscopy in behavioral neuroscience

Writing Center Tutor

The Writing Center, Saint Joseph's University (2016- 2020)

Director: Dr. Jenifer Spinner

- Worked with members of the Saint Joseph's University to develop their writing abilities
- Assisted non-native English speakers in writing papers in English
- Ensured accurate usage of various citation styles in accordance with assignment outlines
- Performed independent research on privilege awareness to apply to staff training

Scholarly Presentations

Atiya, W., Chaudhry, S., Weiss, A., Roy, R., Long, S., MD. In search of an evidence based practice to reduce the duration of untreated psychosis.

International Early Psychosis Association 14th Conference, Summer 2023

Greene, S., Yee, A., Roy, R., Weiss, A., Chaudhry, S., DSW, LCSW, MPH. Hospitalization and Help-Seeking in First Episode Psychosis.

National Medical Association 2023 Annual Convention and Scientific Assembly, Summer 2023

Roy, R., Hammerdahl, E., Becker, E. PhD. Pair Bond Formation in the California Mouse.
Eastern Psychological Association Annual Conference, Virtual Conference, Spring 2021
Society for Behavioral Neuroendocrinology Virtual Conference, Summer 2021

Roy, R., Dupuis, M., Forbes, J., Sallard, G. Latency and neurochemistry of pair bond formation in the California mouse.

Summer Scholars Brown Bag Seminar, Saint Joseph's University, Summer 2018
Summer Scholars Symposium, Saint Joseph's University, Fall 2018 Celebration of Student Achievement, Saint Joseph's University, Spring 2019

Valentino, A., Roy, R. Re-pairing Effects on Birth Latency in the California Mouse.
Summer Scholars Brown Bag Seminar, Saint Joseph's University, Summer, 2019

Roy, R., Rolle, D. Integration of a privilege walk in writing center staff training.
National Conference on Peer Tutoring in Writing, Fall 2017

Grants and Funding

Sigma Xi Research Grant for \$300, Spring 2020

Project: Factors Contributing to the Formation of Pair Bonds in the California Mouse

Sigma Xi Research Grant for \$500, Spring 2019

Project: Factors Contributing to the Formation of Pair Bonds in the California Mouse

Dean's Travel Award, Saint Joseph's University for \$245, Fall 2017

Invited Talks

Becker Lab Alumni Panel (April, 2024)

NISBRE Graduate School Panel (June, 2024)

Honors and Awards

Othmer Fellow, University of Nebraska-Lincoln, 2023-2026

B.A. awarded with Honors, *Magna Cum Laude*, St. Joseph's University, 2019

Academic Achievement Scholarship, Saint Joseph's University, 2015- 2019

Dean's List, Saint Joseph's University, 2015- 2020

Saint Joseph's University Dean's Travel Award, 2017

Skills and Qualifications

Preclinical

- Behavioral assays
- Brain collection by rapid decapitation
- CITI certification in aseptic surgical techniques
- Brain collection by transcardial perfusion
- CITI certification in rodent and human research
- Data analysis using SPSS and R
- Data manipulation and organization
- Experimental design
- Immunofluorescence
- Intraperitoneal & sub-cutaneous injections
- Laboratory management
- Light microscopy
- Literature review
- Manuscript preparation
- Microsoft office software
- Protocol creation and implementation
- Pup weaning in rodents
- Retroorbital eye bleed
- Rodent brain sectioning (Cryostat) and preservation
- Rodent care and husbandry
- Scientific presentations
- Stereotaxic surgery using rodents
- Vaginal lavaging in rodents
- Creating Bash scripts

Clinical

- Clinical assessments
- eDiary proficiency (ePRO, eCRF, eCOA)
- IRB submissions
- Minor safety certified
- NIMH data reports
- Obtain informed consent
- Participant recruitment
- Patient medical history
- Patient medical record organization
- Patient vital signs
- REDCap databases
- Self-Report assessments

Coding & Programming

- R & R studio
- Bash
- AFNI

Professional Affiliations

- WPATH
- Society for Neuroscience
- Society for Behavioral Neuroendocrinology

- Sigma Xi Research Honor Society
- Psi Chi Psychology Honor Society
- Eastern Psychological Association
- Sigma Tau Delta English Honor Society

Service

- Brain Awareness Day at Saint Joseph's University (2018)
- Teens Write (2019)