

# TAYLOR M. DRAZAN

Department of Psychological and Brain Sciences  
Indiana University  
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## EDUCATION

- In Progress**                    **Ph.D., Clinical Psychology**  
Indiana University, Bloomington, IN  
Advisor: Natasha Chaku, Ph.D.
- 2020**                                **B.A., Psychology**  
The University of Iowa, Iowa City, IA  
*Cum Laude*

## HONORS AND AWARDS

- 2023-2024**                    **Predocctoral Trainee**, Multidisciplinary Program in Developmental Process,  
*Indiana University*
- 2022**                                **Office of Fellowship Training Travel Award**, *National Institute of Mental Health*
- 2022**                                **Three Minute Talks Competition Winner**, *National Institute of Mental Health*
- 2020**                                **High Honors in Psychology**, *The University of Iowa*

## RESEARCH EXPERIENCE

- 2022-2023**                    **Postbaccalaureate Intramural Research Training Awardee (IRTA)**  
**Behavioral Endocrinology Branch**  
*National Institute of Mental Health*  
Supervisors: Peter Schmidt, MD, Pedro Martinez, MD  
*Project: An Endocrine Model for Postpartum Mood Disorders*
- Optimize recruitment methods by creating advertisements for women who suffered moderate-postpartum-related, mood disturbances in the past
  - Input symptom ratings and diagnostic interviews into online system
  - Examine effects of hormonal addback and withdrawal in subjects and controls on mood and biological parameters
- Project: Neuropsychological Assessment of Working Memory in Women Transitioning Through the Menopause*
- Score Benton Visual Retention Tests performed by perimenopause women
  - Run analyses examining visual perception, memory, and visuoconstructive abilities
- Project: The NIMH Puberty Study*
- Coordinate appointments for puberty visits that include 4-5 hours spent in the clinic and 5-6 hours spent neuroimaging
- 2020-2023**                    **Postbaccalaureate Intramural Research Training Awardee (IRTA)**  
**Section on Behavioral Neuroscience**  
*National Institute of Mental Health*  
Supervisor: Yogita Chudasama, PhD  
*Project: Neurobiological Correlates of Pregnancy and Parturition in the Common Marmoset*
- Measure brain systems, brain functions and structural changes across pregnancy and the postpartum in common marmosets using multimodal imaging to characterize neurobiological outcomes

- Process resting-state data and run seed-based correlation analyses using the NIH HPC and scientific applications AFNI and BrkRaw
- Intensively train marmosets to remain still in four-hour-long awake resting state scans
- Extract 3D head profiles from MR scans with the scientific application itk-SNAP to create custom helmets for marmosets used during awake scans
- Track gestational age of marmoset pregnancy by measuring parietal diameter of fetus' head using ultrasonography
- Draw blood from marmosets' femoral vein to aliquot for hormonal analysis used to characterize changes in reproductive hormones across pregnancy
- Analyze behavioral data of multiparous and nulliparous females towards infants using the scientific applications python and DeepLabCut

*Project: Partner Preference Task*

- Created a custom T maze apparatus used to observe preferences made by marmosets
- Quantify prosocial behavior between marmosets to establish breeding pairs

*Project: Cognitive, Motor and Social Performance of Shank3-Deficient Rats*

- Record ultrasonic vocalizations and perform milestone batteries on neonatal pups to characterize the developmental phenotype of SHANK3-deficient rats
- Evaluate cognitive, motor and social function of adult SHANK3\_deficient rats

**2019-2020**

**Undergraduate Research Assistant**

**Judgement, Decision, and Social Comparison Lab**

*The University of Iowa*

Supervisor: Paul Windschitl, PhD

- Test participants in protocols identifying influences on judgements and decisions
- Collect and organize data into SPSS and Microsoft Excel
- Create surveys using Qualtrics
- Engage in analytical discussion of new research proposals and paradigms

**2019-2020**

**Undergraduate Research Assistant**

**Tranel Research Lab**

*The University of Iowa*

Supervisor: Daniel Tranel, PhD

- Identify correlations between neuropsychological functioning and age of onset in brain damaged patients
- Administer NIH Toolbox cognition and emotion measures to pediatric neurosurgery patients pre-and post-neurosurgical procedure
- Organize paper data into computerized data from the University of Iowa Patient Registry, a large registry of brain damaged patients dedicated to cognitive neuroscience research
- Participate in intensive training of brain lesion tracing using MRI scans and subsequently trace focal brain lesions using the application Konsole
- Screen patients to determine eligibility for a project based on psychological well-being after a medical or neurological condition
- Code patient transcripts from interviews investigating capacity to consent

**TEACHING EXPERIENCE**

**2020-2023**

*The National Institute of Mental Health*

- Teach students, trainees, and staff on how to operate the 7T scanner, read ultrasound images and analyze marmoset behavior data
- Lead workshops for students and staff on how to properly work with marmosets in a lab

- Supervise veterinary staff in training marmosets on partner preference tasks for the breeding colony
- Designed custom fitted marmoset face masks now used for all surgeries and anesthesia scans in the facility
- Manage weekly ultrasound image analysis for the colony to track their ovarian cycle

## CLINICAL EXPERIENCE

2022-2023

### Clinical Intern

#### NIMH Clinical Program

*The National Institute of Mental Health*

Supervisor: Ann Reifman, PhD

- Participate in interactive lectures on the complex, challenging and rewarding clinical work with people with psychosis
- Work with psychosis patients on an inpatient unit using music and cognitive therapy

2019-2023

### CommUnity Crisis Services and Food Bank

*Crisis Intervention Counselor*

- Volunteer weekly to offer direct support to clients in need over the phone
- Work with clients to discuss their present concerns, create a safety plan and connect them with resources as needed

2019

*Trainee*

- 60-hours of rigorous training in a wide variety of counseling techniques
- Applied Suicide Intervention Skills Training certified

2019-2020

### Internal Medicine Student Hospitalist Assistant

*University of Iowa Hospital*

Supervisor: Bradley Manning, MD

- Serve as liaison between bedside nurses, care coordinators, social workers and provider team of physicians, medical students and pharmacists
- Obtain specific collateral information including urine and blood cultures, biopsy results, and procedural notes from PCP and family members
- Serve as liaison between patient/family and provider team by providing care updates

## UNPUBLISHED MANUSCRIPTS

**Drazan, T.M.,** Bradley, S.P., Allen-Worthington, K., Jones, A., Chudasama, Y., *Female choice of mate determines reproductive success in captive marmosets.*

## CONFERENCE PRESENTATIONS

### Posters

**Drazan, T.M.,** Cole, K.M., Bradley S.P., Yen, C.C., Berman, K.F., Schmidt, P.J., Chudasama, Y., *Neurobiology of pregnancy and the postpartum period in the common marmoset. Neuroscience 2022 (SfN), San Diego, CA, November 2022.*

**Drazan, T.M.,** Cole, K.M., Bradley S.P., Yen, C.C., Berman, K.F., Schmidt, P.J., Chudasama, Y., *Neurobiology of pregnancy and the postpartum period in the common marmoset. The 3<sup>rd</sup> Marmoset Bioscience Symposium, San Diego, CA, November 2022.*

**Drazan, T.M.,** Cole, K.M., Bradley S.P., Yen, C.C., Berman, K.F., Schmidt, P.J., Chudasama, Y., *Neurobiology of pregnancy and the postpartum period in the common marmoset. 52<sup>nd</sup> Annual Meeting of the International Society for Psychoneuroendocrinology (ISPNE), Chicago, IL, September 2022.*

**Drazan, T.M.**, Cole, K.M., Bradley, S.P., Yen, C.C., Berman, K.F., Schmidt, P.J., Chudasama, Y., *The Pregnant Marmoset: Her Brain and Behavior*. NIH Virtual Postbac Poster Day, April 2022.

Pearson, A., **Drazan, T.M.**, Bradley, S.P., Thurm, A., Chudasama, Y., *Performance of Shank3-Deficient Rats on Social, Motor and Cognitive Behaviors*. NIH Virtual Postbac Poster Day, April 2022.

**Drazan, T.M.**, Cole, K.M., Bovell, R., Yen, C.C., Berman, K.F., Schmidt, P.J., Chudasama, Y., *Neuroimaging Analysis of the Marmoset Maternal Brain*. NIH Virtual Postbac Poster Day, April 2021.

Sullivan, A.W., **Drazan, T.M.**, Tranel, D., Demir-Lira, O.E. (2020). *Academic Skills After Brain Injury: A Lifespan Perspective*. 18<sup>th</sup> Annual Conference and Workshops of the American Academy of Clinical Neuropsychology (AACN), Washington, DC (conference cancelled due to Covid-19).

### **Talks**

**Drazan, T.M.**, *Neurobiology of pregnancy and the postpartum period in the common marmoset*. Junior Scientist Talks, The 3<sup>rd</sup> Marmoset Bioscience Symposium, San Diego, CA, November 2022.

**Drazan, T.M.**, *The Pregnant Marmoset: Her Brain and Behavior*. NIMH Three Minute Talks Competition Finals, **Competition Winner**, 24<sup>th</sup> Annual NIMH IRP Fellows' Scientific Training Day, Bethesda, MD, September 2022.

**Drazan, T.M.**, *The Pregnant Marmoset: Her Brain and Behavior*. NIMH Three Minute Talks Competition, **Competition Finalist**, Bethesda, MD, June 2022.