Brandon P. **Labbree**

Research Technician Associate

University of Michigan, Ann Arbor, MA

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I'm a PhD Student at Northeastern University, co-mentored by Varun Mishra and Stephen Intille. I study how to detect and intervene on mental health crises from personal devices like mobile phones and smart watches.

Education

Rutgers University — *Camden, NJ*

M.A., Psychology (Thesis Track) — *Sep 2014 — Sep 2016*

- Thesis: *Accuracy of Gender and Ethnic Labels and Personality Perception As Moderated by Prejudice*
- Advisor: Wayne Chan
- GPA: 3.70 (cum laude)

Rutgers University — *Camden, NJ*

BA, Psychology & Sociology — *Sep 2010 — May 2014*

- Minors: *Childhood Studies* / *Women's and Gender Studies*
- GPA: 3.965 (Summa Cum Laude)
- Dean's List

Professional and Research Experience

BioSocial Methods Collaborative, University of Michigan — *Ann Arbor, MI*

Research Technician Associate — *Sep 2021 — Present*

- Using behavioral coding, psychophysiological, and traditional behavioral methods online and in a homelike setting, conducting research that bridges biology and behavior, tackling varied interdisciplinary topics.
- Assisted in hosting annual research training workshops for early career researchers and graduate students in public health ad related fields
- Worked on several projects exploring (among other things):
- how environmental context can impact perceptions and preferences of scents;
- how different framings and can infl uence individuals' appraisal of situations and influence capacity/cognitive reserves;
- how co-parents undergo behavioral and physiological synchrony in a mildly stressful situation with a young child; \end{itemize}

Princeton Univeristy (PI-Alexander Todorov) — *Princeton, NJ*

Full-time Research Assistant & Lab Manager — *Jan 2017 — Jun 2020*

- Using psychophysical, neuroimaging, and general experimentalmethods in the lab and online, investigating how people evaluate theirenvironments and how these evaluations shape perceptions, decisions,and interactions.
- Worked on several projects exploring (among other things):
- Investigated comorbidity of employees' insurance claims data to dynamically classify claim types and employee phenotypes
- how the distribution of facial features in an environment may biaspeople's evaluations of others;
- how people integrate physical appearance and individualizinginformation in their impressions of others;
- how people are able to associate affective information with faces andits limitations;
- how people's mental images of a prototypical group member differdepending upon the label used to describe said group (e.g., labelingimmigrants as "illegal" vs. "legal");
- data-driven models of social perception, and the relative contributionsof consensus and consistency in decision making.

Rutgers University-Camden (PI: Wayne Chan) — *Camden, NJ*

Graduate Student Researcher — *Sep 2014 — Sep 2016*

- Studied the effect of observer personality in person perception and biasusing survey-based methods.
- Worked on projects exploring:
- how people use stereotypes to judge strangers' personality frommminimal external information;
- how personality predicts the degree people ascribe humanity to theelderly and people with mental illnesses;

Research Experience

University of Michigan

2021

- Using behavioral coding, psychophysiological, and traditional behavioral methods online and in a homelike setting, conducting research that bridges biology and behavior, tackling varied interdisciplinary topics.
- Assisted in hosting annual research training workshops for early career researchers and graduate students in public health ad related fields
- Worked on several projects exploring (among other things):
- how environmental context can impact perceptions and preferences of scents;
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- how co-parents undergo behavioral and physiological synchrony in a mildly stressful situation with a young child;

Quantitative Psychology & Statistics Lab (Fengqing Zhang, PhD) *Drexel University*

"Momentary Changes in Heart Rate Variability Can Detect Risk for Emotional Eating Episodes." *2015 — 2019*

- Aim: predicting emotional eating episodes in disorded eating patients using a combination of heart rate variability data and self\tab report
- Outcome: Paper published in Appetite (2019)

Quantitative Psychology & Statistics Lab (Fengqing Zhang, PhD) *Drexel University*

"Application of Advanced Data Mining Models to Identify Dietary Patterns Associated with Risk of Cardiovascular Disease." *2015 — 2019*

- Aim: compare the performance of unsupervised feature selection (PCA/FA) against regularization (L1/L2) in predicting cardiovascular disease biomarkers from high-dimensional food and behaviour survey responses
- Outcome: Master's thesis topic (2018)

Quantitative Psychology & Statistics Lab (Fengqing Zhang, PhD) *Drexel University*

"Improved Modelling of Smartphone-based Ecological Momentary Assessment Data for Dietary Lapse Prediction." *2015 — 2019*

- Aim: predicting dietary adherance lapses in participants using self-reported EMA
- Outcome: Neighbourhood-Based Balancing — A Novel Semi-Supervised Classification Algorithm for Imbalanced Data ("5-Minute Thesis", themed talk at the Well Center Symposium 2018)

Quantitative Psychology & Statistics Lab (Fengqing Zhang, PhD) *Drexel University*

"Identifying Autism Diagnostic Interview: Revised Algorithm Items that Significantly Distinguish Autism Spectrum Disorder and Down Syndrome." *2015 — 2019*

- Aim: Identify phenotypic differences between children with autism spectrum disorder, down syndrome, and comorbid diagnoses using the Autism Diagnostic Interview-Revised (ADI-R)
- Outcome: Paper published in Research in Developmental Disabilities (2019)

Quantitative Psychology & Statistics Lab (Fengqing Zhang, PhD) *Drexel University*

"Modeling Zero-Inflated MVPA Bouts Using a Hierarchical Linear Modeling Framework" *2015 — 2019*

- Aim: predict participants' moderate-to-vigorous physical activity (MVPA) bouts at timepoint 3 from previous timepoints using a zero-inflated Tweedie Poisson regression model in a growth curve modeling context
- Outcome: Final paper submitted in CFTP758 — Dyadic Analysis and Longitudinal Causal Modeling

Statistical and Applied Mathematical Sciences Institute (SAMSI) *NC State University*

"Predicting multiple sclerosis (MS)" *2016*

- Aim: classify participant diagnosis (MS patient vs. control) using lesion count along the corpus callosum in a diffusion dataset
- Outcome: Successfully predicted MS diagnosis using 3 different logistic regression segmentation approaches with 81% classification accuracy

Laboratory for Innovations in Health-Related Behavior Change (Evan Forman, PhD) *Drexel University*

"A Companion Smartphone App to Enhance Dietary Adherence through Predictive Machine Learning" *2015*

- Aim: Data collection, cleaning, and summarization with Excel and SPSS

Publications

First-author

Middle-author

Learning the affective value of people: More than affect-based mechanisms *Acta Psychologica*

C Ferrari, DW Oh, BP Labbree, A Todorov *2020*

Teaching Experience

Teaching Assistant

2018	MSc. Psychology — Statistics I & II	*Drexel University*

Service

2022 to present	Member, Mentor	*R 4 Data Science Community (R4DS.io)*
2013 to 2021	Member, Alumni Mentor	*Drexel University Gospel Choir*
2013 to 2018	Peer Counselor, VP of Scheduling & Communications	*Drexel University Peer Counseling Helpline*

Skills

Analytical

Data Science, Reproducible Research, Parameterized & Interactive Reports, Plotting & Visualization

Programming languages

R, Python, HTML/CSS, JavaScript

Packages

Tidyverse, RMarkdown, ggplot2, pacman

Tools

Git, RStudio, Jupyter Notebooks, SPSS, Qualtrics, Amazon Mechanical Turk, CloudResearch powered by TurkPrime,, FaceGen