Landry S. Bulls

Ph.D. Candidate | Dartmouth College | Psychological and Brain Sciences
Website: landrybulls.github.io | Github: github.com/LandryBulls | Bluesky: landrybulls.bsky.social
Landry.S.Bulls.GR@Dartmouth.edu

EDUCATION

Ph.D. Candidate | Psychological and Brain Sciences   August 2022 – Present
Advisor: Mark A. Thornton

M.A. | Psychological and Brain Sciences, Dartmouth College   August 2024
Estimating Multimodal Redundancy in Conversational Speech
Committee: Mark A. Thornton, Luke J. Chang

B.S. Psychology, University of Texas at Austin   Spring 2017 – May 2020

B.S. Psychology, University of Texas at San Antonio   Fall 2015 – Fall 2016

PUBLICATIONS

* indicates equal contributions

Bulls, L. S., Thornton, M. A (In prep): *Quantifying beliefs about mental state intensity dynamics and their conceptual correlates.*
[Preprint] [Data and code]

Miao G. Q., Trujillo J., Bulls L. S., Thornton M. A., Dale R., & Pouw W. (2025). DIMS Dashboard for Exploring Dynamic Interactions and Multimodal Signals. In A. Ruggeri, D. Barner, C. Walker, & N. Bramley (Eds.), *Proceedings of the 47th Annual Conference of the Cognitive Science Society*. San Francisco, CA: Cognitive Science Society.
[PDF]

Bulls, L. S., Thornton M. A. (2024) *Estimating Multimodal Redundancy in Conversational Speech*. Master's Thesis.
[Thesis]

Lin, C., Bulls, L. S.*, Tepfer, L.*, Vyas, A. D.*, & Thornton, M. A. (2023). *Advancing naturalistic affective science with deep learning.*
[Paper] [Preprint]

Seth, R. K., Landry, S. B., & Jarrod, A. L.-P. (2020). *Eye tracking reveals two components of monitoring in prospective memory.* Journal of Vision, 20(11), 935–935.
[DOI]

POSTER PRESENTATIONS

Bulls, L. S., Thornton, M. A. (2025). *Detecting Distributed Social States from Multimodal Signals in Group Conversations.* Social and Affective Neuroscience Society, Chicago, IL.
[Link to poster]

Bulls, L. S., Thornton, M. A. (2024). *Accurate perceptions of leadership in group conversations.* Social and Affective Neuroscience Society, Toronto, ON.
[Link to poster]

Bulls, L., Thornton, M. A. (2023). *Characterizing perceptions of intra-emotional dynamics and their conceptual correlates*. Society for Personality and Social Psychology 2023 – Emotion Preconference, Atlanta, GA.
[Link to poster]

RESEARCH EXPERIENCE

SCRAP Lab, Dartmouth College   August 2022 – Present
Doctoral Researcher

SCRAP Lab, Dartmouth College   August 2020 – July 2022
Lab Manager

Lewis-Peacock Lab, UT Austin   May 2018 – May 2020
Undergraduate Research Assistant

Gonzalez-Lima Lab, UT Austin   August 2017 – May 2018
Undergraduate Research Assistant

Henderson Lab, UT Austin   Spring 2017
Undergraduate Research Assistant

FELLOWSHIPS AND GRANTS

Undergraduate Research Fellowship   Spring 2019
The Augmentation of Cognitive Control with Low-level Light Therapy

TECHNICAL SKILLS

Programming languages
- Python
- R

Software development
- Design and use of pip-installable Python packages for psychology research methods
- Collaborative software design with Git

Data analysis and computational modeling
- Methods in advanced statistical analyses using machine learning, representational similarity analysis, graph theory, audiovisual processing

Social signal processing
- Implementation of deep neural networks for the extraction of human body pose, facial expression, facial identification, speech transcription, dynamic semantic embeddings
- Multimodal data acquisition and integration: audiovisual data alignment, multi-device recording systems, audio source separation

DMX512 stage lighting automation
- Design and implementation of automated audio-reactive stage lighting systems (see Oculizer)

Visual effects and videography
- Proficiency in Adobe Premiere, Adobe After Effects, Blender, DaVinci Resolve

TALKS

Bulls, L. (May 2025). *Multimodal Feature Extraction in Group Conversations.* Workshop on Naturalistic Conversations, Princeton University, Princeton, NJ.

Bulls, L. (October 2024). *Automated Speech Diarization and Transcription for Naturalistic Conversation Research.* Dynamic Interaction Methodologies Symposium, University of California at Los Angeles, Los Angeles, CA.

Bulls, L. (July 2024). *Multimodal Data Acquisition in Naturalistic Group Conversations.* Lab Meeting (PI: Kevin Ochsner), Columbia University, New York, NY.

TEACHING ASSISTANTSHIPS

PSYC 53, Social Psychology   Winter 2025
Prof. Kiara Sanchez
Dartmouth College

PSYC 53, Behavior of Groups (Volunteer)   Spring 2024
Prof. Melissa Herman
Dartmouth College

PSYC 10, Experimental Methods in Psychology   Summer 2024
Prof. Jamshed Bharucha
Dartmouth College

PSYC 23 Social Psychology   Winter 2024
Prof. Mark Thornton
Dartmouth College

Neural Systems II   Spring 2020
Prof. Michael Drew
University of Texas at Austin

LECTURES

Conversation Analysis   April 2024
PSYC53, Behavior of Groups
Prof. Melissa Herman, Dartmouth College

Conversation   W 2024, W 2025
PSYC23, Social Psychology
Prof. Mark Thornton, Dartmouth College

MENTORSHIP

Marissa Benz (Dartmouth College)   2024 – Present

Noemi Rivera (Dartmouth College)   2025—Present

Luke Morrow (Dartmouth College)   2025—Present

Katherine Jia (Dartmouth College)   2023 – 2024

Bupe Mwalongo (Dartmouth College)   2022 – 2023

Brandon Dormes (Dartmouth College)   2022 – 2023

Julia Martin (Dartmouth College)   2022 – 2022

Caroline Conway (Dartmouth College)   2021—2022

OUTREACH

Science Day at Dartmouth, Hanover, NH   April 2023

Teacher, Discovery Science Place Summer Camp, Tyler, TX   Summer 2017

WORKSHOPS AND SUMMER SCHOOLS

Neurohackademy, University of Washington, Seattle, W.A.   Summer 2023

PROFESSIONAL AND DEPARTMENTAL SERVICE

Social Lab (SLAB) Talk Series Co-Organizer   2024 – Present
Dartmouth College | PBS

Consortium for Interacting Minds (CIM) Talk Series Co-Organizer   2024 – Present
Dartmouth College | PBS

Social Committee Member   2024 – Present
Dartmouth College | PBS