

Runan Wang

Curriculum Vitae

PERSONAL INFORMATION

Home Address

1280 S Alhambra Cir., #1212
Coral Gables, FL 33146
(805)359-9071

Office Address

Department of Psychology, 434
University of Miami
Coral Gables, FL 33124
runan_wang@miami.edu

HIGHER EDUCATION

Doctor of Philosophy

Expected Summer 2028

University of Miami, Coral Gables, FL

Program: Cognitive and Behavioral Neuroscience

Specialization in Temporal dynamics of affect and emotion regulation

Advisor: Dr. Aaron Heller, Dr. Mingbo Cai

Bachelor of Science. (Highest Honor)

Jun. 2022

University of California, Santa Barbara
Santa Barbara, CA, the U.S.

Major: Biopsychology

Cumulative GPA: 3.94

ACADEMIC HONORS AND AWARDS

- | | |
|-----------|---|
| 2022 | Morgan Award for Academic Excellence at the University of California, Santa Barbara |
| 2022 | Exceptional Academic Performance Award at the University of California, Santa Barbara |
| 2019-2021 | Dean's Honors at the University of California, Santa Barbara |
| 2018 | First Prize in IMMC (the International Mathematics Modelling Challenge) |

MANUSCRIPTS IN PREPARATION

Wang, R., Li, M., Lapate, C. R. (2024, in prep). Individual differences in reappraisal are associated with the temporal dynamics of emotion.

Li, M., ***Wang, R.**, *Schwartzman, B., J., Giesbrecht, B., Sprague, T., & Lapate., C. R. (2024, in prep). Temporal memory coding shapes the dynamics of affect: EEG evidence from an event-boundary study. *equal contribution.

PRESENTATIONS

Li, M., Wang, R., Wang, J., Lapate, C.R. (2024). *Functional organization of lateral prefrontal cortex during time-emotion integration*. 2024 Annual meeting of the Society of Neuroscience. Chicago, IL.

Wang, R., Li, M., Lapate, C. R. (2022). *The Temporal dynamics of affective spillover*. 2023 Annual meeting of Social and Affective Neuroscience Society. Santa Barbara, CA.

Li, M., Wang, R., Levier, T., Lapate, C. R. (2022). *The dynamics of affect and temporal memory across event boundaries*. 2023 Annual meeting of Social and Affective Neuroscience Society. Santa Barbara, CA.

RESEARCH EXPERIENCE

Miami Affective Neuroscience And Translational Experimental Enterprise Lab

The MANATEE lab at the University of Miami investigates individual differences in the temporal dynamics of emotion and real-world behavior using behavioral, mobile health, and neuroimaging methods to better understand risk and resilience to psychopathology.

Director: Aaron Heller, Ph.D.

Graduate student 2024/09 – Present

- Conceptualize and conduct a research project looking into the learning of emotion regulation strategies by ecological measurement assessment and natural language processing.
- Develop precision fMRI analysis pipelines to investigate the relationship between functional connectivity across time in anhedonia individuals and reduced positive affect.

Lapate Experimental Affective Psychological and Neuroscience Laboratory, UC Santa Barbara

The LEAP lab at UC, Santa Barbara investigates neural mechanisms underlying emotion-cognition interactions with a focus on cognitive control and adaptive emotion. By integrating multimodal research approaches, including behavioral, fMRI, EEG, and TMS, the LEAP lab would like to answer questions about the interaction between emotion and temporal dynamics and how emotional responses impact the neural coding of time and temporal memory.

Director: Regina Lapate, Ph.D.

Lab Manager 2022/07 – 2024/07

- Led an independent project examining the temporal dynamics of affective spillover by behavioral and fMRI paradigms, including running over 400 online and 25 in-person participants.
- Assisted with NIH R01 grant application by designing multiple novel experimental paradigms, creating a condition file generator pipeline, and collecting and analyzing online data in R.
- Systemized fMRI data in data cluster, preprocessed neuroimaging data in bash and FSL, and analyzed the data using various models, including univariate analysis, FIR, and MVPA.
- Received training in TMS experiment conduction and used Brainsight to view and retrieve data.

- Collaborate with PI to submit IRB modifications and maintain IRB and other regulatory paperwork.
- Mentor and train undergraduate students in experimental protocols and data analysis.
- Orchestrate and manage schedules and activities within the lab; coordinate activities across labs and serve as a liaison to departmental agencies, administrators, and external guest speakers.
- Optimize and maintain an organized inventory management system; monitor utilization of supplies and adjust stock levels, respectively.

Lapate Experimental Affective Psychological and Neuroscience Laboratory, UC Santa Barbara

Director: Regina Lapate, Ph.D.

Research Assistant 2021/09 – 2022/06

- Built and set up for lab environment, especially for EEG study, and helped with study preparations.
- Ran EEG sessions, including participant coordination, electrode application, and data collection.
- Studied brain anatomy and construction in ITK-SNAP and built brain construction instructions.
- Helped with experiment designing in PsychoPy and material selection from IAPS and OASIS datasets.
- Wrote experiment run logs and other instructions as shared resources for future colleagues.
- Interviewed undergraduate research assistants and tutored them in current projects and coding.

WEIMING THE THERAPEUTICS., Beijing

Weiming is a start-up company based in Beijing that is dedicated to providing digital therapeutics for intervention and treatment of Major Depressive Disorders and attention deficit hyperactivity disorder.

Research Assistant 2021/04 – 2021/07

- Conducted dense literature search and review in the field of ADHD and working memory deficits.
- Worked as a scribe in a psychiatry clinic at the Capital Institute of Pediatrics, recording medical history, tests, and diagnoses of ADHD.
- Summarized background extant research of mental disorders for possible digital therapy developments, including major depression disorder, language development deficits, and perinatal depression.

- Participated in study design brainstorming and contributed to the development of pioneered products.

JACOBS LAB, UC Santa Barbara

The Jacobs lab at UC Santa Barbara uses brain imaging, endocrine, and computational approaches to deepen our understanding of hormone action in the human brain. Major initiatives include the study of endocrine aging during the midlife transition to menopause and dense-sampling studies across the diurnal cycle, menstrual cycle, and pregnancy.

Director: Emily Jacobs, Ph.D.

Research Assistant 2019/09 – 2020/03

- Conducted literature review in the field of neuroendocrinology and navigational abilities.
- Assisted in conducting computer- and VR-based behavioral experiments, including preparing study set-ups, answering participants' questions, and resolving technical issues.
- Collected and analyzed data of over 100 participants in R and MATLAB.

GRANTS AND FUNDING

None

PROFESSIONAL AFFILIATIONS

2023-2024 The Social and Affective Neuroscience Society (SANS)

REFERENCES

Aaron Heller, Ph.D.
Department of Psychology
University of Miami
aheller@miami.edu

Regina Lapate
Assistant Professor of Psychology
Department of Psychological and Brain
Sciences
University of California, Santa Barbara
lapate@ucsb.edu