# Rui Nie

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### RESEARCH INTERESTS

Statistical learning for health. Longitudinal data analysis and wearable device data.

#### **EDUCATION**

University of Michigan, Ann Arbor, MI, USA

Aug 2023 —

Ph.D. in Biostatsitics

University of Michigan, Ann Arbor, MI, USA

Aug 2020 — Apr 2023

Bachelor of Science in Honors Mathematics and Honors Statsitics

## PUBLICATIONS AND THESIS

- Wang, P., Feng, H., Du, X., Nie, R., Lin, Y., Ma, C., & Zhang, L. (2023). EEG-Based Evaluation of Aesthetic Experience Using BiLSTM Network. International Journal of Human-Computer Interaction, 1-14.
- Nie, R. & Tewari, A. (2023). Exploring machine olfaction [Unpublished bachelor's honors thesis]. University of Michigan.

# RESEARCH EXPERIENCE

Song Lab, University of Michigan

Ann Arbor, USA

Graduate research assistant

Dec 2023 —

- Joint modeling on All-of-Us data as a part of evaluation for conformal prediction framework.
- Large Language Model for replicability assessment.

## CompHCI Lab, University of Michigan

Ann Arbor, USA

 $Undergraduate\ reserach\ assistant$ 

Sept 2022 — July 2023

- Local Interpretable Model-Agnostic Explanations (LIME) for medical image segmentation.
- Post-hoc explanation profile clustering for trustworthiness of machine learning models.

CASI Lab, University of Michigan

Ann Arbor, USA

Sept 2021 — Apr 2023

Undergraduate reserach assistant

- Predicting Human-generated Odor Labels from Molecular Representations with Graph Neural Networks.
- A general investigation of machine learning methods for modeling continuous human odor percept representation from molecular representations (*Thesis project*).

Institute of Psychology, Chinese Academy of Science

Research Intern

Beijing, China

June 2021 — Feb 2022

• Investigated EEG's in evaluation of aesthetics experience for physical products using a BiLSTM network.

#### AWARDS AND HONORS

Outstanding Achievement in Mathematics Award, University of Michigan

Outstanding Undergraduate Major Award by Statistics Department, University of Michigan

Keeler Merit Scholarship by Mathematics Department, University of Michigan

June, 2022

# OTHER EXPERIENCES

Research Volunteer for OLSHA STATCOM project, University of Michigan Curriculum committee member at Biostatsitics Department, University of Michigan

2024

2023-2024

DEI School-wide Student Representative at Biostatsitics Department, University of Michigan	2023-2024
Student Volunteer at U-M Annual Data Science & AI Summit 2023  Leadership Board Member at Michigan Institute for Data Science (MIDAS)	Nov, 2023 2022-2023
Volunteer at Michigan Science Olympiad	Feb, 2022
Grader for Math 525, University of Michigan	Fall, 2021