JACK D'IORIO

GRADUATE TEACHING ASSISTANT, UNIVERSITY OF VERMONT

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RESEARCH INTERESTS

- **Neural Cellular Automata**, especially under communicative constraints.
- **Emergent Behavior**, especially in models with primarily local interactions.
- **Complex Systems Modeling,** especially on a computer.

EDUCATION

2026 - 2027 **M.S. Complex Systems and Data Science,** *University of Vermont,* Burlington, VT, USA.
Thesis: TBA
Advisor: Laurent Hébert-Dufresne

2022 - 2026 **B.S. Computer Science,** *University of Vermont,* Burlington, VT, USA.
Magna Cum Laude

ACADEMIC APPOINTMENTS

2026 - 2027 **Graduate Teaching Assistant**, *University of Vermont,* Laurent Hébert-Dufresne
Course: Modeling Complex Systems I

Fall 2024 **Undergraduate Teaching Assistant**, *University of Vermont,* Clayton Cafiero
Course: Computability and Complexity

Spring 2024 **Undergraduate Teaching Assistant**, *University of Vermont,* Clayton Cafiero
Course: Introduction to Programming

RESEARCH POSITIONS

2026 - 2027 **Graduate Researcher**, The Joint Lab, Vermont Complex Systems Institute, *University of Vermont*
Neural cellular automata under communicative constraints

Fall 2025 **Undergraduate Research Assistant**, Dr. Jessica Crothers, T.G.I.R. Lab, *University of Vermont*
Applications of auto-encoders to OPV shedding outcomes

Spring 2025 **Undergraduate Research Assistant**, Joseph Near, P.L.A.I.D Lab, *University of Vermont*
Improving upon and assessing speaker privacy guarantees using differential privacy

PUBLIC SPEAKING

Jan. 2026 **TEDxUVM**, "The Science of Sustainability", TED Conferences LLC
Watch on Youtube

Nov. 2025 **Guest Lecture**, Introduction to Artificial Intelligence, Clayton Cafiero, *University of Vermont*
Invited to present core concepts related to artificial intelligence

PUBLICATIONS

- **DP-VOXLET: Provable Speaker Anonymization for Disentangled Speech Representations.** Ivoline Ngong, Jack D'Iorio, Hailey Schoppe, Christopher Liberatore, Nichole Schimanski, Taisa Kushner, Joseph P. Near. In Interspeech 2026.