

ROSANNA VITIELLO

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA Sept 2023 - Present

Ph.D. in Language and Information Technologies

Advisor: Carolyn Rosé & Yonatan Bisk

Carnegie Mellon University, Pittsburgh, PA Aug 2023

M.S. in Language and Information Technologies

Advisor: Carolyn Rosé

GPA: 4.03/4.3

Tufts University, Medford, MA May 2021

B.S. in Computer Science & B.S. in Cognitive and Brain Science, *Summa Cum Laude*

WORK EXPERIENCE

Carnegie Mellon University, Pittsburgh, PA Sept 2021 – Present

Graduate Researcher with Prof. Carolyn Rosé and Prof. Yonatan Bisk

- Developing tools to provide facilitation and support during human-AI collaboration

Nasuni, Boston, MA May 2020 – Aug 2021

Software Engineer Intern

- Deployed Python scripts for automated testing framework and conducted analysis of customer data

Tufts University, Medford, MA Dec 2020 – May 2021

Undergraduate Researcher with Tufts Human Interaction Lab

- Aided in development of an automatic speech-to-text system (GailBot) that transcribes paralinguistic features of talk used in conversation analysis

Tufts University, Medford, MA May 2019 – Aug 2019

Undergraduate Researcher with Prof. Diane Souvaine and Prof. Matias Korman

- Wrote proofs for computational algorithms analyzing patterns in electoral redistricting and gerrymandering

PUBLICATIONS

1. **Evaluating Interdependent Collaboration in Multi-Agent LLM Systems**

Rosanna Vitiello, Yonatan Bisk, Carolyn Rosé

Preprint. Under Review.

2. **How Do Students Deliberate for Socially Shared Regulation in Collaborative Learning?
A Process-Oriented Approach**

Belle Dang, **Rosanna Vitiello**, Andy Nguyen, Carolyn Rosé, Sanna Järvelä
International Conference on Computer-Support Learning (CSCL), 2023

3. **Towards Visible Socially-Shared Regulation of Learning: Exploring the Role of Learning Design**

Cristina Villa-Torrano, **Rosanna Vitiello**, Jiaxin Shi, Carolyn P. Rosé, Juan I. Asensio-Pérez, Yannis Dimitriadis, Eduardo Gómez-Sánchez and Miguel Bote-Lorenzo
International Conference on Computer-Support Learning (CSCL), 2023

4. **“Where is the Z-axis?”: Negotiating Understanding of Servo Rotation Through Gestures and Tools**

Nickolina Yankova, Joey Huang, **Rosanna Vitiello**, Samantha Speer, Melisa Orta-Martinez, Carolyn Rosé, Kylie Peppler
International Conference of the Learning Sciences (ICLS), 2023

5. **Model Transfer for Event Tracking as Transcript Understanding for Videos of Small Group Interaction**

Sumit Agarwal, **Rosanna Vitiello**, Carolyn Rosé
First Workshop on Transcript Understanding, COLING 2022

6. **ET tu, CLIP? Addressing Common Object Errors for Unseen Environments**

Rosanna Vitiello*, Ye Won Byun*, Cathy Jiao*, Shariar Noroozizadeh*, Jimin Sun*
Embodied AI Workshop, CVPR 2022

DEMOS & PRESENTATIONS

1. **Traveling Bazaar: Portable Support for Face-to-Face Collaboration**

Rosanna Vitiello, Soham Dinesh Tiwari, R. Charles Murray, and Carolyn Rose
Interactive Tools and Demo Presentation, CSCL 2023

2. **Studying Interdisciplinary Collaboration as a Core Skill**

Rosanna Vitiello, Joey Huang, Samantha Speer, Nickolina Yankova, Kylie Peppler, Melisa Orta-Martinez, and Carolyn Rose
Poster Presentation, CSCL 2023

TEACHING EXPERIENCE

Teaching Assistant

2019 - 2021	Head Teaching Fellow in Introduction to Algorithms, Tufts University
2018 - 2019	Teaching Assistant in Introduction to Computer Science, Tufts University

Student Mentoring

2024 - Present	Sheryl Matthew, CMU Master (SCS)
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TECHNICAL SKILLS

Languages: Python, C/C++, Java, Shell Scripting, R, HTML/CSS

Tools & Frameworks: PyTorch, TensorFlow, NumPy, Pandas, OpenCV, Git

COMMUNITY SERVICES

2025	<i>Committee Member</i> , Student Committee for Faculty Hiring, CMU LTI
2024	<i>Paper Review</i> , TMLR, EMNLP