

# Luca Scofano

PhD Candidate, AI Researcher

[email](#) | [LinkedIn](#) | [Personal Site](#)

## ABOUT ME

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My research focuses on the intersection of embodied AI and uni/multi-modal learning using LLMs/VLMs. In my ongoing Ph.D. program, I delved into topics such as multi-body pose forecasting, scene-aware pose forecasting, exploring higher-order topologies in data, and in-context learning for procedural anomaly detection.

## EDUCATION

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| <b>Sapienza University of Rome</b><br><i>Ph.D. student, Data Science, with a specific focus on Human Behaviour and Embodied AI</i> | Rome, Italy<br>Nov. 2021 – Present   |
| <b>Sapienza University of Rome</b><br><i>Master of Science, Data Science</i>   | Rome, Italy<br>Nov. 2019 – Nov. 2021 |
| <b>Sapienza University of Rome</b><br><i>Bachelor of Arts, Economics</i>   | Rome, Italy<br>Nov. 2016 – Nov. 2019 |

## EXPERIENCE

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| <b>Visiting Researcher</b><br><i>TU Darmstadt</i> <ul style="list-style-type: none"><li>Working on the multimodal grounding for Embodied AI</li><li>Working on Graph Neural Networks for Embodied AI</li></ul>  | May 2024 – Oct. 2024<br><i>Darmstadt, Germany</i> |
| <b>Teaching Assistant for Advanced Machine Learning</b><br><i>Sapienza University of Rome</i> <ul style="list-style-type: none"><li>Assisted in lectures, project preparation, and evaluation for machine learning techniques and deep learning models. Was also part of a series of guest lectures and gave an overview of Embodied AI</li></ul> | Sep. 2023 – Feb. 2024<br><i>Rome, Italy</i>       |
| <b>Teaching Assistant for Fundamentals of Data Science</b><br><i>Sapienza University of Rome</i> <ul style="list-style-type: none"><li>Fundamentals of Data Science and Laboratory (Assisted in lectures, project preparation, and evaluation for data science basics, data mining, and machine learning)</li></ul>                               | Sep. 2022 – Feb. 2023<br><i>Rome, Italy</i>       |

## PUBLICATIONS

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### Following the Human Thread in Social Navigation

**Scofano, L., Sampieri, A., Campari, T., Sacco, V., Spinelli, I., Ballan, L., Galasso, F. (2024).** *pre-print*

### PREGO: online mistake detection in PROcedural EGOcentric videos.

*Flaborea, A., Melendugno, G.M., Plini, L., Scofano, L., Matteis, E.D., Furnari, A., Farinella, G.M., Galasso, F. 2024 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*

### TopoX: A Suite of Python Packages for Machine Learning on Topological Domains. pre-print

*Hajij, M., et. al, 2024 pre-print*

### ICML 2023 Topological Deep Learning Challenge: Design and Results

*Papillon, M., et. al TAG-ML, ICML23*

### Staged Contact-Aware Global Human Motion Forecasting

**Scofano, L., Sampieri, A., Schiele, E., Matteis, E.D., Leal-Taix'e, L., Galasso, F., BMVC '23 Oral Presentation (top %4)**

## **Best Practices for 2-Body Pose Forecasting.**

*Rahman, M.R.\* , **Scofano, L.\***, Matteis, E.D., Flaborea, A., Sampieri, A., Galasso, F. 2023 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 3614-3624. Best Paper Award*

## **About latent roles in forecasting players in team sports**

***Scofano, L.**, Sampieri, A., Re, G., Almanza, M., Panconesi, A., Galasso, F. Neural Processing Letters*

## SKILLS

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**Languages:** English fluently, Italian fluently

**Programming Languages:** Python, SQL, R

**Libraries:** PyTorch, Keras, PyTorch Geometric, TopoX, NetworkX, Pandas, NumPy, Matplotlib