Giovanni **Franzese**

PhD Student in Machine Learning for Robotics, 3me, TU Delft ·

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Education

Delft University of Technology — *Delft, Netherlands*

PhD in Interactive Imitation Learning for Robotics in Department of Cognitive Robotics. Thesis: Uncertainty-aware Interactive Imitation Learning for Robot Manipulation. Mentor: Jens Kober, Luka Peternel. — *June. 2019 - June 2023*

University College London — *London United Kingdom*

Visiting PhD in Statistical Machine Learning group. Mentor: Marc Deisenroth — *Sep. 2022 - Feb 2023*

Eindhoven University of Technology — *Eindhoven, Netherlands*

ERASMUS+ Master thesis in Department of Dynamics and Control. Mentor: Alessandro Saccon — *Feb. 2018 - July 2018*

Politecnico di Milano — *Milano, Italy*

Masters Degree in Mechatronics and Robotics (107/110) — *Sept. 2016 - Dec. 2018*

Politecnico di Milano — *Milano, Italy*

Bachelor Degree in Mechanical Engineering (104/110) — *Sept 2013 - Sept 2016*

Teaching

2022&23	**Lecturer on Gaussian Process Bayesian Machine Learning** MSc course Intelligent Control Systems	*TU Delft*
2020 & 21	**Teaching Assistant** MSc course Machine Learning for Robotics	*TU Delft*
2020	**Teaching Assistant** MSc course Knowledge Based Control Systems	*TU Delft*
2020 & 21	**Mentor** MSc Program Robotics	*TU Delft*

Publications

2023	**Interactive Imitation Learning of Bimanual Movement Primitives** Carlos Celemin, Rodrigo Pérez-Dattari, Eugenio Chisari, Giovanni Franzese, Leandro de Souza Rosa, Ravi Prakash, Zlatan Ajanović, Marta Ferraz, Abhinav Valada, Jens Kober. Foundations and Trends® in Robotics	*Foundations and Trends® in Robotics*
2023	**Damping Design for Robot Manipulators** Tomás Coleman, Giovanni Franzese, Pablo Borja. Human-Friendly Robotics 2022: HFR: 15th International Workshop on Human-Friendly Robotics	*HFR*
2022	**Disagreement-Aware Variable Impedance Control for Online Learning of Physical Human-Robot Cooperation Tasks** L van der Spaa, G Franzese, J Kober, M Gienger. Workshop @ International Conference on Robotics and Automation	*ICRA*
2022	**Learning to Pick at Non-Zero-Velocity from Interactive Demonstrations** A Mészáros, G Franzese, J Kober. Robotics and Automation Letter (RA-L)	*RA-L*
2021	**Adaptation through prediction: Multisensory active inference torque control** C Meo, G Franzese, C Pezzato, M Spahn, P Lanillos. Transactions on Cognitive and Developmental Systems	*TCDS*
2021	**Interactive learning of sensor policy fusion** B Bootsma, G Franzese, J Kober. International Conference on Robot & Human Interactive Communication	*RO-MAN*
2021	**ILoSA: Interactive Learning of Stiffness and Attractors** G Franzese, A Mészáros, L Peternel, J Kober. International Conference on Intelligent Robots and Systems	*IROS*
2020	**Learning interactively to resolve ambiguity in reference frame selection** G Franzese, CE Celemin, J Kober. COnference of Robot Learning	*CoRL*
2020	**Interactive learning of temporal features for control: Shaping policies and state representations from human feedback** R Perez-Dattari, C Celemin, G Franzese, J Ruiz-del-Solar, J Kober. IEEE Robotics & Automation Magazine	*RAM*

Pre-prints

2023 **Solving Robot Assembly Tasks by Combining Interactive Teaching and Self-Exploration** Mariano Ramirez Montero, Giovanni Franzese, Jeroen Zwanepol, Jens Kober

2023 **Do You Need a Hand?–a Bimanual Robotic Dressing Assistance Scheme** Jihong Zhu, Michael Gienger, Giovanni Franzese, Jens Kober

2023 **Interactive Imitation Learning of Bimanual Movement Primitives** Giovanni Franzese, Leandro de Souza Rosa, Tim Verburg, Luka Peternel, Jens Kober

Reviewer for

2020-2022 **IROS, ICRA, NeurIPS WS, RA-L, Autonomous Robots, Human-Friendly Robotics**

Talks

2021 **Interactive Learning of Stiffness and Attractors** *IROS, Prague*

2020 **Learning Interactively to Resolve Ambiguity** *CoRL, MIT, Boston*

2020 **Ambiguities in Learning from Demonstrations** Workshop on Interactive Robot Learning *ICRA, Paris*

Awards

2022 **ELLIS PhD Student** ELLIS PhDs conduct cutting-edge curiosity-driven research in machine learning or a related research area with the goal of publishing in top-tier conferences in the field.

2022 **Winner Franka-Emika Manipulation Hackathon** at the European Robotics Forum *Rotterdam*

2021 **Winner of BEST LATE BREAKING RESULTS POSTER AWARD** IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM) *Delft*

Grants

2022 **TAILOR Connectivity found** Awarded 15.000 € for visiting University College London from September 2022 to February 2023