

Giovanni Palla

PhD candidate - Munich School for Data Science, Institute of Computational Biology, Helmholtz - TU Munich

Education

- 10/2019- **PhD candidate**, *Prof Dr Fabian Theis's group*, Machine Learning and Single-Cell Genomics, present Institute of Computational Biology, Helmholtz Center Munich, Munich, Germany.
- 09/2016- **MSc in Drug Innovation - 9.1/10 cum laude**, Graduate School of Life Sciences, *Utrecht University*, Utrecht, The Netherlands.
- 09/2013- **BSc in Biomolecular Sciences and Technology - 110/110 cum laude**, *University of Trento*, 07/2016 Trento, Italy.
- 06/2012 **High School Diploma-Scientific Field**, *Liceo Scientifico G.B. Quadri*, Vicenza, Italy.

Publications

- 2023 Mapping cells through time and space with Moscot, *Klein**, **Palla***, *Lange**, *Klein**, *Piran* et al.*, 10.1101/2023.05.11.540374.
bioRxiv
- 2023 SpatialData: an open and universal data framework for spatial omics, *Marconato**, **Palla***, *Yamauchi**, *Virshup* et al.*, 10.1101/2023.05.05.539647.
bioRxiv
- 2023 The scverse project provides a computational ecosystem for single-cell omics data analysis, *Virshup**, *Bredikhin**, *Heumous**, **Palla***, *Sturm**, *Gayoso* et al.*, 10.1101/2023.05.11.540374.
bioRxiv
- 2022 Modeling Single-Cell Dynamics Using Unbalanced Parameterized Monge Maps, *Eyring**, *Klein**, **Palla*** *et al.*, Talk @ NeurIPS - LMRL Workshop 2022, 10.1101/2022.10.04.510766.
bioRxiv
- 2022 Uncertainty Quantification for Atlas-Level Cell Type Transfer, *Engelmann**, *Hetzel**, **Palla*** *et al.*, Poster @ ICML 2022 - Workshop on Computational Biology, arXiv:2211.03793.
arxiv
- 2022 Squidpy: a scalable framework for spatial omics analysis, **Palla***, *Spitzer* et al.*, 10.1038/s41592-021-01358-2.
Nature Methods
- 2022 Spatial components of molecular tissue biology, **Palla***, *Fischer* et al.*, 10.1038/s41587-021-01182-1.
Nature Biotechnology
- 2020 Latent Factor Modeling of scRNA-Seq Data Uncovers Dysregulated Pathways in Autoimmune Disease Patients, **Palla*** *et al.*, 10.1016/j.isci.2020.101451.
iScience 2020

Talks and Posters

- 2023 **Poster**, *Mapping cells through time and space with Moscot*, Single Cell Genomics 2023.
Engelberg, Switzerland
- 2023 **Poster**, *SpatialData and Moscot for the integrative analysis of spatial omics data*, Human Cell Atlas General Meeting 2023.
Toronto, Canada

- 2022 **Poster**, *SpatialData: a FAIR framework for spatial multiomics data*, Single Cell Genomics 2022. Utrecht, Netherlands
- 2022 **Invited talk**, *ECCB 2022 - Workshop on Spatial Transcriptomics and cell-cell communication modeling*. Sitges, Spain - Virtual

Presentations and Lectures

- 2023 **Lecturer**, *Spatial Omics Data Analysis*, MSc in Bioinformatics and Functional Genomics, IFOM. Milan, Italy
- 2022 **Lecturer**, *Spatial Omics Data Analysis*, MSc in Bioinformatics, University of Verona. Verona, Italy
- 2022 **Instructor**, *Spatial Omics Data Analysis*, SciLife Lab, 1-week course. Stockholm, Sweden - Virtual
- 2022 **Instructor**, *Advanced topics in single-cell analysis*, Swiss Institute for Bioinformatics, 1-week course. Basel, Switzerland

Internships

- 06/2023-08/2023 **Intern**, *BioML team*, Microsoft Research, Cambridge, MA, USA.
- 11/2018-08/2019 **Intern**, *Dr Enrico Ferrero's team*, Autoimmunity, Transplantation & Inflammation, Novartis Institute for Biomedical Research, Basel, Switzerland.
- 11/2017-08/2018 **Intern - Otto Bayer fellow**, *Dr Judith Zaugg's group*, Structural and Computational Biology Unit, European Molecular Biology Laboratory, Heidelberg, Germany.

Grants, Honors & Awards

- 2023 **SpatialData: A FAIR Framework for Multimodal Spatial Omics**, *CZI Single Cell Data Insight grant*, Key personnel, PIs: Moore, Stegle.
- 2022 **Interactive Visualization of Spatial Omics Data**, *napari Plugin Accelerator*, Key personnel, PI: Theis.
- 2021 **Add On fellowship**, *Joachim Herz Stiftung*.
- 2017 **Otto Bayer Fellowship**, *Bayer Foundation*.
- 2017 **Erasmus Scholarship**, *Utrecht University*.
- 2016 **Young Innovators Honor Program**, *Utrecht University*.
- 2013 **Merit award for outstanding results in undergraduate studies**, *University of Trento*.

Teaching and Mentorship experience

- 2019- **Spatialdata, Squidpy and Scverse teams**, worked with students and research assistants on implementations, project management.
- 2019- **MSc and Bsc Thesis supervision**, Supervised 4 master students and 1 bachelor student for their thesis.

Journal and Conference reviewing

- 2023- **Optimal Transport and Machine Learning workshop**, *NeurIPS*.
- 2023- **Nature Methods**.

2021- **Bioinformatics.**

Extra-Curricular Activities

- 11/2019- **Student representative**, MUNICH SCHOOL FOR DATA SCIENCE, Munich, Germany.
- 12/2022 Interdisciplinary graduate program between Helmholtz Munich, TUM, LMU and DLR.
- 11/2016- **Board Member**, CLUB ALPBACH TRENTO, Trento, Italy.
- 09/2018 Part of the Forum Alpbach Network, European Forum Alpbach, Austria.
- 08/2016 **Scholarship holder**, EUROPEAN FORUM ALPBACH, Alpbach, Austria.
- 12/2015- **Board member**, OWL OPEN WET LAB, MUSE (Science Museum), Trento, Italy.
- 12/2016 First Biohacking association in Italy. Responsible for the joint-editorial staff with local newspapers.
- 01/2015- **Science Communicator**, RAGIONEVOLMENTE, Trento.
- 08/2016 Public events of science communication held in Trento and Bolzano.