Giovanni Palla

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

Education

10/2019-present — **PhD candidate**, *Prof Dr Fabian Theis's group*, Machine Learning and Single-Cell Genomics, Institute of Computational Biology, Helmholtz Center Munich, Munich, Germany.
Awarded Joachim Herz fellowship.

09/2016-11/2018 — **MSc in Drug Innovation - 9.1/10 cum laude**, Graduate School of Life Sciences, *Utrecht University*, Utrecht, The Netherlands.
Awarded Erasmus+ scholarship and Otto Bayer - Bayer Foundation Fellowhsip, completed extra-curricular courses in Bioinformatics. Activities and societies: *Young Innovators Honour Programme.*

09/2013-07/2016 — **BSc in Biomolecular Sciences and Technology - 110/110 cum laude**, *University of Trento*, Trento, Italy.
Merit award for outstanding results in undergraduate studies

06/2012 — **High School Diploma-Scientific Field**, *Liceo Scientifico G.B. Quadri*, Vicenza, Italy.

Papers

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

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

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-   **Intern**, *BioML team*, Microsoft Research, Cambridge, MA, USA.
08/2023

11/2018-   **Intern**, *Dr Enrico Ferrero's team*, Autoimmunity, Transplantation & Inflammation, Novartis Institute for
08/2019   Biomedical Research, Basel, Switzerland.

11/2017-   **Intern** - **Otto Bayer fellow**, *Dr Judith Zaugg's group*, Structural and Computational Biology Unit,
08/2018   European Molecular Biology Laboratory, Heidelberg, Germany.

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 Trentino, 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.