

# Valentina PASQUALE

Curriculum vitae

## HIGHLIGHTS

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Since 2019 Valentina has been working as **”Research Data Management Specialist”**, overseeing the development of Open Science and Research Data services at [Istituto Italiano di Tecnologia \(IIT\)](#).

Valentina is a recognized expert in **data analysis, data management, and open science**, as witnessed by the intense training and seminar activity of the last years and publications’ record.

In 2019-2021, she chaired the **GO FAIR Data Stewardship Competence Centers’ Implementation Network**. By actively participating to the **Italian Computing and Data Infrastructure (ICDI) Competence Centre**, she contributed to introduce to the Italian Open Science community the professional figure of the *Data Steward*.

Valentina has strong **communication, organizational, community-building, and technical skills**, including experience in research data repository management ([IIT Dataverse](#)), data curation, and data science.

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: 6<sup>th</sup> June 1982  
ADDRESS:  
PHONE:  
EMAIL:  
LINKEDIN:  
SCOPUS:  
ORCID:

## SKILLS’ OVERVIEW

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**Research Data Management, FAIR data stewardship, Open Science, Data Curation, Statistical Analysis, Software programming, R&D, Neuroscience, Teaching and Training, Communication, Community-building, Project Management.**

## IT & PROGRAMMING SKILLS

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Expert: DATAVERSE, MATLAB, MS Office Suite, Windows OS.  
Intermediate: R, C/C++, SQL,  $\LaTeX$ .  
Basic: LINUX/UNIX OS, PYTHON, health IT standards (HL7, DICOM).

## RESEARCH & WORK EXPERIENCE

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<i>Current</i> MAR 2019	Research Data Management Specialist at ISTITUTO ITALIANO DI TECNOLOGIA <i>Research Organization Directorate</i> Set-up and coordination of Research Data Management services at IIT to support scientists in Open Science and data management.
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MAR 2019	Post-doc at ISTITUTO ITALIANO DI TECNOLOGIA
MAY 2017	<i>Optical Approaches to Brain Function Research Line</i> Analysis of in vivo electrophysiology data; software programming for instrumentation control; research data management.
APR 2017	Post-doc at ISTITUTO ITALIANO DI TECNOLOGIA
JUN 2012	<i>Neural Interfaces and Neurorehabilitation lab</i> Signal processing and statistical analysis of in vitro and in vivo electrophysiology data; research data management; co-supervision of graduate students.
JUN 2012	Integration Specialist at CARESTREAM HEALTH
JAN 2011	<i>Carestream Technology &amp; Innovation center</i> Delivery of Integration Services to European customers; data migration; design and development of BI reports.
DEC 2010	Research Fellow at ISTITUTO ITALIANO DI TECNOLOGIA
JAN 2010	<i>Neuroscience and Brain Technologies Department</i>
DEC 2009	PhD candidate at UNIVERSITY OF GENOVA and ISTITUTO ITALIANO DI TECNOLOGIA
JAN 2007	<i>Neuroscience and Brain Technologies Department</i>

## EDUCATION

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APR 2010	PhD in HUMANOID TECHNOLOGIES, <b>University of Genova</b> Thesis: "Analysis of the network dynamics of cultured neurons coupled to microelectrode arrays: from spontaneous to evoked activity patterns"   Advisors: Prof. Sergio MARTINOIA, Dr. Michela CHIAPPALONE
NOV 2006	Master of BIOENGINEERING, <b>University of Genova</b> 110/110 <i>summa cum laude</i>   Major: Neuroengineering Thesis: "Self-organized critical states and population dynamics in networks of in vitro cortical neurons"   Advisor: Prof. Sergio MARTINOIA
SEP 2004	Bachelor of BIOMEDICAL ENGINEERING, <b>University of Genova</b> 110/110 <i>summa cum laude</i> Thesis: "Models and simulations of networks of cortical neurons in vitro"   Advisor: Prof. Vittorio SANGUINETI
JUL 2001	<b>Liceo Scientifico Statale "L. Lanfranconi"</b> , Genova   Final Grade: 100/100

## SELECTED CERTIFICATES AND TRAININGS

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DEC 2021	<a href="#">FAIRsFAIR &amp; EOSC Synergy Data Steward Instructor Training Workshop</a> , November 29 <sup>th</sup> -December 3 <sup>rd</sup> , 2021.
OCT 2021	<a href="#">FAIRsFAIR Practical implementation of FAIR-related content in university curricula and teaching training workshop</a> , October 12 <sup>th</sup> , 2021.
OCT 2020	<a href="#">Data Carpentry with R online course</a> by E-SCIENCE CENTER & THE CARPENTRIES, October 19 <sup>th</sup> -22 <sup>nd</sup> , 2020.
MAY 2019	<a href="#">Helis FAIR Data Stewardship course</a> by HELIS ACADEMY. Certificate earned on May 29 <sup>th</sup> , 2019, Niel (Belgium).
Nov 2018	<a href="#">Open Science: Sharing Your Research with the World</a> by TU DELFT on edX. Certificate earned on November 29 <sup>th</sup> , 2018. <i>Valid certificate id: 38d48ba6e6bc43759d11a07da619e66e.</i>

- NOV 2018 [Research data management and sharing](#) by The University of North Carolina at Chapel Hill & The University of Edinburgh on COURSERA.  
Certificate earned on Wednesday, November 7<sup>th</sup>, 2018.  
*License: 3JP9XU2HNE6C.*
- SEP 2012 Public speaking course by J. Pasotti, ISTITUTO ITALIANO DI TECNOLOGIA.
- JAN 2008 Professional Qualification Exam, ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI GENOVA.
- JUN 2003 First Certificate in English, UNIVERSITY OF CAMBRIDGE, ESOL EXAMINATIONS  
GRADE: A, *Certificate number: 0010209674.*

## SEMINAR ACTIVITY IN RESEARCH DATA MANAGEMENT (RDM)

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- NOV 2022 "The transformative potential of Open Science", [Italian Reproducibility Network - Online seminars on Open Science](#), November 24<sup>th</sup>, 2022. Video recording: [Youtube](#). Slides: [Zenodo](#).
- JAN 2022 "Il data steward: chi è, cosa fa e perché è fondamentale", [Open Science Café webinar series \(in Italian\)](#), January 13<sup>th</sup>, 2022. Video recording: [webpage](#). Slides (registration required): [webpage](#).
- DEC 2021 Panelist at the "Role models for parents in Science" round table discussion, [IEEE Women in Engineering Leadership Summit - phygital event](#), December 15<sup>th</sup>, 2021.
- DEC 2021 "The transformative potential of Open Science", [Promoting Open Research for the Future of Education webinar](#), December 14<sup>th</sup>, 2021, Istituto Affari Internazionali, Online presentation. Slides: [doi](#).
- OCT 2021 "Il ruolo e le competenze del *data steward*: una nuova figura professionale a supporto dei dati FAIR per la ricerca", [GenOA Week 2021](#), October 29<sup>th</sup>, 2021. Slides: [webpage](#).
- SEP 2021 "Chasing convergence by respecting diversity - Lessons from chairing DSCC-IN", [FORGE21](#), September 10<sup>th</sup>, 2021, Online presentation. Slides: [doi](#).
- JUN 2021 "Data Steward per i dati FAIR", [Conferenza GARR 2021](#), June 15<sup>th</sup>, 2021, Online presentation (in Italian). Slides and video recording: [webpage](#). Short abstract: [doi](#). Extended abstract: [doi](#).
- DEC 2020 "My journey from research to data stewardship: a new career pathway for parents in science", [IEEE Women in Engineering Leadership Summit - virtual event](#), December 15<sup>th</sup>, 2020, Online presentation. Slides: [doi](#).
- DEC 2020 "DSCC-IN contribution to the dissemination of FAIR data stewardship knowledge across countries", [GO FAIR/CODATA International FAIR Convergence Symposium 2020](#), [Data Stewardship panel](#), December 2<sup>nd</sup>, 2020, Online presentation. Pre-recorded video: [Vimeo](#). Slides: [Google Drive](#).
- SEP 2020 "Open Science and Data Stewardship in Italy: an overview", [1<sup>st</sup> Polish Data Stewardship School](#), September 15<sup>th</sup>, 2020, Online presentation. Slides: [doi](#).

## ORGANIZED AND MODERATED EVENTS IN RDM

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- APR 2023 Moderator of the Open Science Café "La rete di data steward: l'esperienza di UniBO", [Open Science Café webinar series \(in Italian\)](#), April 13<sup>th</sup>, 2023. Link: [URL](#).
- 2019-2022 Co-organizer of the annual Open Science conference GenOA Week. Last edition: [URL](#).
- DEC 2021 Moderator of the Open Science Café "Dati FAIR: un focus su Horizon Europe", [Open Science Café webinar series \(in Italian\)](#), December 2<sup>nd</sup>, 2022. Video recording: [webpage](#).

- OCT 2021 Chair of the [DSCC-IN National Chapters meeting](#), October 4<sup>th</sup>-5<sup>th</sup>, 2021. Slides: [doi](#).
- JUN 2021 Organizer of "Sharing FAIR Data Stewardship knowledge across borders" session at the [FAIR Festival 2021](#), June 21<sup>st</sup>-23<sup>rd</sup>, 2021. Slides: [doi](#).

## TRAINER EXPERIENCE IN RDM

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- FEB 2023 "Open Science and Research Data Management", University of Genova & Istituto Italiano di Tecnologia, training course for PhD students, academic year 2022-2023. [AulaWeb course page](#).
- FEB 2022 "Open Science and Research Data Management", University of Genova & Istituto Italiano di Tecnologia, training course for PhD students, academic year 2021-2022. [AulaWeb course page](#).
- FEB 2021 "An Introduction to Open Science and Research Data Management", University of Genova & Istituto Italiano di Tecnologia, training course for PhD students, academic year 2020-2021. Slides: [doi](#). [AulaWeb course page](#).
- JUL 2020 "An Introduction to Open Science and Research Data Management", [Fondazione Mondino & Bibliosan](#), July 10<sup>th</sup>, 2020. Slides: [doi](#).

## OUTREACH

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- [Pasquale V.](#) (2020). *Non c'è scienza senza dati*. [IIT Open Talk magazine](#). [Link](#).
- Co-organizer of the round table "Scienza aperta, scienza per tutti: Open & citizen science astronomiche", October 25<sup>th</sup>, 2023, Festival della Scienza, Genova (IT). Speakers: Maria Brovelli, Massimiliano Razzano, Patrizia Tosi, Elena Giglia. [Link](#): [URL](#).

## MEMBERSHIPS & APPOINTMENTS

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- 2021-current Member of the [ICDI Executive Board](#), on behalf of IIT.
- 2020-current Member of the [Data Stewardship Wizard \(DSW\) Advisory Board](#). [Twitter announcement](#).
- 2019-current Member of the [Research Data Alliance](#).
- 2019-2021 **Chair of the [GO FAIR Data Stewardship Competence Centers Implementation Network \(DSCC-IN\)](#)**.

## PROJECTS' PARTICIPATION

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- **Skills for the European Open Science commons: creating a training ecosystem for Open and FAIR science (Skills4EOSC)**, Coordinated Support Action funded in the HORIZON-INFRA-2021-EOSC-01-01 call, starting date 1<sup>st</sup> Sep, 2022. Total budget: about 7 M€. IIT is involved as affiliated entity of the Consortium GARR.

## HIGHLIGHT OF SCIENTIFIC PRODUCTION

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For a full record of the my scholarly communication output, please visit [my IIT personal page](#) or [my Scopus profile](#).

In summary, I have been

- CO-AUTHOR of
  - **16 scientific journal articles**
  - 2 editorials

- 28 peer-reviewed conference proceedings (9 indexed in Scopus, APR 2023),
- 3 book chapters.
- CO-EDITOR OF
  - "In vitro neuronal networks: from culturing methods to neuro-technological applications", Springer, 2019, e-book ISBN: 978-3-030-11135-9, [doi.org/10.1007/978-3-030-11135-9](https://doi.org/10.1007/978-3-030-11135-9).
  - "Criticality as a signature of healthy neural systems", Frontiers in Systems Neuroscience, ISBN: 978-2-88919-503-9, [doi.org/10.3389/978-2-88919-503-9](https://doi.org/10.3389/978-2-88919-503-9)
- H-INDEX: 15 (source: Scopus, APR 2023)
- NUMBER OF CITATIONS: 942 (source: Scopus, APR 2023)

## OPEN DATA & CODE

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- Zucca S.\*, Pasquale V.\*, Lagomarsino de Leon Roig P., Panzeri S., & Fellin T. (2019). *Data of "Thalamic drive of cortical parvalbumin-positive interneurons during down-states in anesthetized mice"* [Data set]. **Zenodo**. DOI: [10.5281/zenodo.2609157](https://doi.org/10.5281/zenodo.2609157) \*Equal contribution
- Pasquale, V. (2021). *Code for: A self-adapting approach for the detection of bursts and network bursts in neuronal cultures*, DOI: [10.48557/JIJEXY](https://doi.org/10.48557/JIJEXY), IIT Dataverse, V1.

## LANGUAGES

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ITALIAN: Mothertongue  
ENGLISH: Full professional knowledge, European Level B2.  
FRENCH: Basic Knowledge

## PRIVATE LIFE & HOBBIES

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Married in 2009, I am mother of two wonderful daughters, aged 11 and 7. I also have a Flat Coated Retriever dog, named Happy, which I like to train and play with. I love running, swimming, and hiking with the family, but also listening to classic music and reading novels.

In compliance with the GDPR and the Italian Legislative Decree no. 196/2003, I hereby authorize you to use and process my personal details contained in this document.

Genova, April 7<sup>th</sup> 2023

Signature

**Valentina Pasquale**