

# Europass Curriculum Vitae



## Personal information

First name(s) / Surname(s)

**Giuseppe Jurman**

Address(es)

Telephone(s)

Fax(es)

Email(s)

Nationality(-ies)

Date of birth

Fiscal Code

## Occupational field

Data Scientist

## Work experience

Dates  
Occupation or position held

Jan 21 - ongoing  
Head of Data Science for Health (DSH) Research Unit, Center for Digital Health & Wellbeing, Fondazione Bruno Kessler  
Jan 20 - Dec 20

Dates  
Occupation or position held

Head of Predictive Models for Biomedicine and Environment (MPBA) Research Unit, Fondazione Bruno Kessler  
Jan 08 - Dec 19

Dates  
Occupation or position held

Senior Researcher at Fondazione Bruno Kessler, Research Unit MPBA  
Jan 06 - Dec 07

Dates  
Occupation or position held

Junior Researcher at Fondazione Bruno Kessler, Research Unit MPBA  
Jan 03 - Dec 05

Dates  
Occupation or position held

PostDoc Fellow at Fondazione Bruno Kessler, Research Unit MPBA

Dates  
Occupation or position held Jun 01 - Dec 02  
PostDoc Fellow at University of Trento, Department of Mathematics  
Feb 01 - Jun 01

Dates  
Occupation or position held Programmer at Netwise, snc  
Feb 99 - Feb 01

Dates  
Occupation or position held PostDoc Fellow at Center for Mathematics and Applications, Australian National University (Canberra)

## Education and training

Dates  
Title of qualification awarded May 21  
National Scientific Qualification as Associate Professor  
Subject Bioengineering (09/G2)  
Validity May 2021 - May 2030  
Nov 98

Dates  
Title of qualification awarded Ph. D.  
Principal subjects Mathematics  
Name and type of organization University of Trento (Prof. A. Caranti)  
providing education and training  
Jul 93

Dates  
Title of qualification awarded M. Sc. (Laurea)  
Principal subjects Mathematics  
Name and type of organization University of Trento (Prof. E. Ballico)  
providing education and training

## Language skills and competences

Mother tongue(s)

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

**Italian**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

## Computer skills and competences

Programming languages  
Advanced: R, Python, PHP  
Intermediate: C, SQL, Perl, Bash, Awk, Basic, Fortran, Lisp, Pascal  
Basic: Matlab, Java

Operative Systems  
Advanced: \*nix  
Intermediate: OS X  
Basic: Microsoft Windows

## Research Interests

Data Science  
Data Analytics, Artificial Intelligence, Bioinformatics, Machine Learning, Deep Learning, Computational Biology, Data Visualization

Algebra  
Network theory, Group theory, Lie algebras, Combinatorics

## Summer Schools Directions

Event WebValley FBK International Summer School in Data Science  
Role Director  
Year 2009-2023 (15 editions)

## Tutoring

### *Ph.D.*

Student Matteo Pozzi  
Institution Ph.D. in Quantitative Biology, University of Trento  
Role Thesis Supervisor  
Year Ongoing

Student Massimiliano Datres  
Institution Ph.D. in Mathematics, University of Trento  
Role Thesis Co-Supervisor  
Year Ongoing

Student Ornella Colpani  
Institution Ph.D. in Pharmacological and Biomolecular Sciences, University of Milan  
Role Thesis Co-Supervisor  
Year Suspended

Title Theoretical and algorithmic solutions for null models in network theory  
Student Andrea Gobbi  
Institution Doctoral Programme in Mathematics, University of Trento  
Role Thesis Supervisor  
Year 2013

Title Distances and Stability in Biological Network Theory  
Student Roberto Visintainer  
Institution Doctoral Programme in Information and Communication Technology, University of Trento  
Role Thesis Supervisor  
Year 2013

### *M.Sc.*

Title TBD  
Student Elisa Maccabiani  
Institution M.Sc. in Data Science, University of Trento  
Role Thesis Supervisor  
Year 2023, ongoing

Title TBD  
Student Federica Rignanese  
Institution M.Sc. in Quantitative and Computational Biology, University of Trento  
Role Thesis Supervisor  
Year 2023, ongoing

Title	Tourism in Trentino: an exploratory and forecast longitudinal analysis
Student	Elisa Rigoni
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2023, ongoing
Title	Enhancing lungs cancer prognosis with radiomic features: a comparative evaluation of hand-crafted and Deep Learning segmentation in CT scans
Student	Huma Rehman
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Co-Supervisor
Year	2023, ongoing
Title	Generative approaches versus resampling for time-series clinical data: methods to mitigate health data poverty
Student	Raffaele Marchesi
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Co-Supervisor
Year	2023, ongoing
Title	Enhancing reproducibility and interpretability in Crohn's Disease and Ulcerative Colitis Detection
Student	Elisa Paolazzi
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2023
Title	A machine learning approach in the predictive modelling of resource allocation in artificial snow-making
Student	Alessio Rimessi
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2023
Title	Visualization of binary confusion matrices: classical and novel approaches
Student	Isabella Dario
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Prediction and Simulation of football teams' behaviour through Deep Learning techniques
Student	Riccardo Zorzoni
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Data Science in the ICU: machine learning models to predict deterioration of critically ill patients
Student	Eric Solinas
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021

Title	Machine learning prediction of diabetes comorbidities in a large Italian cohort
Student	Giacomo Bornino
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Deep features analysis with geometric methods in digital pathology: quantification of the immune response in neuroblastoma patients
Student	Bruno Papa
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Object detection of T lymphocytes in Neuroblastoma using deep learning
Student	Chiara Riccardi
Institution	M.Sc. in Quantitative and Computational Biology, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Gender and Geographical Factors Impacting Stroke Admissions
Student	Nicolò Merzi
Institution	M.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	AI in predictive diagnostics: DL for gastrointestinal endoscopic imaging in Inflammatory Bowel Diseases
Student	Nicolae Puica
Institution	M.Sc. in Computer Science, University of Trento
Role	Thesis Supervisor
Year	2021
Title	Phylogenetic Convolutional Neural Networks in Metagenomics
Student	Ylenia Giarratano
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2016
Title	Techniques of integration for high-throughput omics data
Student	Lucia Trastulla
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2016
Title	Biological network inference via DTW & correlation measures from time-course data
Student	Marco Ferrarini
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2012
Title	Feature ranking and classification of molecular data based on discriminant analysis methods
Student	Roberto Visintainer

Institution	M.Sc. in Telecommunications Engineering, University of Trento
Role	Thesis Supervisor
Year	2008
Title	Algebraic reconstruction of gene regulatory networks
Student	Andrea Gobbi
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2010
Title	Metodi algebrici per la bioinformatica: codici ECOC in problemi multiclasse con costi non uniformi
Student	Irene Oliani
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2005
 <i>B.Sc.</i>	
Title	TBD
Student	Luca Cazzola
Institution	B.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2023, ongoing
Title	A Machine Learning Approach for Gestational Diabetes Mellitus Prediction
Student	Denise Tampieri
Institution	B.Sc. in Data Science, University of Trento
Role	Thesis Supervisor
Year	2023
Title	Data Leakage in Digital Pathology
Student	Alessia Marcolini
Institution	B.Sc. in Computer Science, University of Trento
Role	Thesis Supervisor
Year	2020
Title	A telegram-bot based alerting system for meteorological extreme events
Student	Vincenzo Caracciolo
Institution	B.Sc. in Computer Science, University of Trento
Role	Thesis Supervisor
Year	2020
Title	Algebraic and combinatorial techniques for stability algorithms on ranked data
Student	Andrea Gobbi
Institution	B.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2008
Title	Studio di algoritmi algebrici per la stabilità predittiva di signature molecolari per dati genomici ad alta dimensione
Student	Martina Rossi
Institution	B.Sc. in Mathematics, University of Trento

Role	Thesis Supervisor
Year	2008
Title	Algoritmi permutazionali per la sintesi di profili molecolari
Student	Stefano Maragnoli
Institution	B.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2005
Title	Indicatori algebrici di stabilità per liste ordinate in diagnostica molecolare
Student	Alessia Peretti
Institution	B.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2005

## Teaching experience

Course	Tecnologie digitali: traiettorie future per la pratica medica
School	La salute digitale: Corso introduttivo all'utilizzo delle tecnologie digitali nella pratica medica
Institution	Scuola di formazione specifica in Medicina Generale, FBK & University of Trento
Role	Lecturer
Year	2023
Course	Building trust on Artificial Intelligence as a practical primer of clinical research
School	Advanced educational and training course on clinical research
Institution	Department of Medicine, University of Padua
Role	Lecturer
Year	2023
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2022/23
Course	Il machine learning
Course	La diagnostica per immagini: Anatomia Patologica
School	2nd Formazione manageriale retraining: Intelligenza artificiale e Big Data in sanità
Institution	Autonomous Province of Trento
Role	Lecturer
Year	2022
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2021/22
Course	Intelligenza artificiale: una opportunità per la scienza e la medicina
Course	Il machine learning
Course	La diagnostica per immagini: Anatomia Patologica
School	1st Formazione manageriale retraining: Intelligenza artificiale e Big Data in sanità
Institution	Autonomous Province of Trento

Role	Lecturer
Year	2021
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2020/21
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2019/20
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2018/19
Course	Data Mining
Institution	M. Sc. Computer Science, Free University of Bolzano
Role	Lecturer
Year	2016/17
Course	Statistical Machine Learning
Institution	ICT International Doctorate School, University of Trento
Role	Lecturer
Year	2005/06
Course	Algebra I
Institution	M.Sc. in Mathematics, University of Trento
Role	Assistant
Year	2001/02
Course	Algebra II
Institution	B.Sc. in Mathematics, University of Trento
Role	Assistant
Year	2001/02
Course	Galois Theory
Institution	B.Sc. in Mathematics, University of Trento
Role	Assistant
Year	2001/02
Course	Introduction to Lie algebras
Institution	M.Sc. in Mathematics, Australian National University
Role	Lecturer
Year	2000
Course	Calculus II
Institution	B.Sc. in Informatic Engineering, University of Trento
Role	Assistant
Year	1997/98



Course Calculus  
Institution B.Sc. in Economics, University of Trento  
Role Assistant  
Year 1996/97

Course Calculus  
Institution B.Sc. in Economics, University of Trento  
Role Assistant  
Year 1995/96

## Publications

***h*-index (Google Scholar)**

36

OrcID

[orcid.org/0000-0002-2705-5728](https://orcid.org/0000-0002-2705-5728)

ScopusID

6602367398

Refereed Journals

Davide Chicco and Giuseppe Jurman.  
A statistical comparison between Matthews correlation coefficient (MCC), prevalence threshold, and Fowlkes–Mallows index.  
*Journal of Biomedical Informatics*, 144:104426, 2023

Davide Chicco and Giuseppe Jurman.  
The Matthews correlation coefficient (MCC) should replace the ROC AUC as the standard metric for assessing binary classification.  
*BioData Mining*, 16(1):4, 2023

Jordi Martorell-Marugán, Pedro Carmona-Sáez, Marco Chierici, Sara Bandres-Ciga, and Giuseppe Jurman.  
Machine Learning Applications in the Study of Parkinson's Disease: A Systematic Review.  
*Current Bioinformatics*, 18:E–pub Ahead of Print, 2023

Jordi Martorell-Marugán, Marco Chierici, Giuseppe Jurman, Marta E. Alarcón-Riquelme, and Pedro Carmona-Sáez.  
Differential diagnosis of systemic lupus erythematosus and Sjögren's syndrome using machine learning and multi-omics data.  
*Computers in Biology and Medicine*, 152:106373, 2023

Davide Chicco and Giuseppe Jurman.  
Ten simple rules for providing bioinformatics support within a hospital.  
*BioData Mining*, 16(1):6, 2023

Davide Chicco, Tiziana Sanavia, and Giuseppe Jurman.  
Signature literature review reveals AHCY, DPYSL3, and NME1 as the most recurrent prognostic genes for neuroblastoma.  
*BioData Mining*, 16(1):7, 2023

Davide Chicco and Giuseppe Jurman.  
An invitation to greater use of Matthews correlation coefficient (MCC) in robotics and artificial intelligence.  
*Frontiers in Robotics and AI*, 9:876814, 2022

Francesca Minnai, Sara Noci, Marco Chierici, Chiara Elisabetta Cotroneo, Barbara Bartolini, Matteo Incarbone, Davide Tosi, Giovanni Mattioni, Giuseppe Jurman, Tommaso A. Dragani, and Francesca Colombo.  
Genetic predisposition to lung adenocarcinoma outcome is a feature already present in patients' noninvolved lung tissue.  
*Cancer Science*, 114(1):281–294, 2022

Marco Chierici, Nicolae Puica, Matteo Pozzi, Antonello Capistrano, Marcello Dorian Donzella, Antonio Colangelo, Venet Osmani, and Giuseppe Jurman.  
Automatically detecting Crohn's disease and Ulcerative Colitis from endoscopic imaging.

*BMC Medical Informatics and Decision Making*, 22(S6):300, 2022

Davide Chicco, Abbas Alameer, Sara Rahmati, and Giuseppe Jurman.

Towards a potential pan-cancer prognostic signature for gene expression based on probesets and ensemble machine learning.

*BioData Mining*, 15(1):28, 2022

Davide Chicco and Giuseppe Jurman.

A brief survey of tools for genomic regions enrichment analysis.

*Frontiers in Bioinformatics*, 2:968327, 2022

Davide Chicco and Giuseppe Jurman.

The ABC recommendations for validation of supervised machine learning results in biomedical sciences.

*Frontiers in Big Data*, 5:979465, 2022

Alessia Marcolini, Nicole Bussola, Ernesto Arbitrio, Mohamed Amgad, Giuseppe Jurman, and Cesare Furlanello.

histolab: A Python library for reproducible Digital Pathology preprocessing with automated testing.

*SoftwareX*, 20:101237, 2022

Wendell Jones, Binsheng Gong, Natalia Novoradovskaya, Dan Li, Rebecca Kusko, Todd A. Richmond, Donald J. Johann Jr, Halil Bisgin, Sayed Mohammad Ebrahim Sahraeian, Pierre R. Bushel, Mehdi Pirooznia, Katherine Wilkins, Marco Chierici, Wenjun Bao, Lee Scott Basehore, Anne Bergstrom Lucas, Daniel Burgess, Daniel J. Butler, Simon Cawley, Chia-Jung Chang, Guangchun Chen, Tao Chen, Yun-Ching Chen, Daniel J. Craig, Angela del Pozo, Jonathan Fook, Margherita Francescato, Yutao Fu, Cesare Furlanello, Kristina Giorda, Kira P. Grist, Meijian Guan, Yingyi Hao, Scott Happe, Gunjan Hariani, Nathan Haseley, Jeff Jasper, Giuseppe Jurman, David Philip Kreil, Paweł Łabaj, Kevin Lai, Jianying Li, Quan-Zhen Li, Yulong Li, Zhiguang Li, Zhichao Liu, Mario Solís López, Kelci Miclaus, Raymond Miller, Vinay K. Mittal, Marghoob Mohiyuddin, Carlos Pabón-Peña, Barbara L. Parsons, Fujun Qiu, Andreas Scherer, Tieliu Shi, Suzy Stiegemeyer, Chen Suo, Nikola Tom, Dong Wang, Zhining Wen, Leihong Wu, Wenzhong Xiao, Chang Xu, Ying Yu, Jiyang Zhang, Yifan Zhang, Zhihong Zhang, Yuanting Zheng, Christopher E. Mason, James C. Willey, Weida Tong, Leming Shi, and Joshua Xu.

A verified genomic reference sample for assessing performance of cancer panels detecting small variants of low allele frequency.

*Genome Biology*, 22:111, 2021

Davide Chicco, Niklas Tötsch, and Giuseppe Jurman.

The Matthews correlation coefficient (MCC) is more reliable than balanced accuracy, bookmaker informedness, and markedness in two-class confusion matrix evaluation.

*BioData Mining*, 14:13, 2021

Davide Chicco, Matthijs J Warrens, and Giuseppe Jurman.

The coefficient of determination R-squared is more informative than SMAPE, MAE, MAPE, MSE and RMSE in regression analysis evaluation.

*PeerJ Computer Science*, 7:e623, 2021

Davide Chicco, Matthijs J. Warrens, and Giuseppe Jurman.

The Matthews Correlation Coefficient (MCC) is More Informative Than Cohen's Kappa and Brier Score in Binary Classification Assessment.

*IEEE Access*, 9:78368–78381, 2021

- Davide Chicco and Giuseppe Jurman.  
Arterial disease computational prediction and health record feature ranking among patients diagnosed with inflammatory bowel disease.  
*IEEE Access*, 9:78648–78657, 2021
- Nicole Bussola, Bruno Papa, Ombretta Melaiu, Aurora Castellano, Doriana Fruci, and Giuseppe Jurman.  
Quantification of the Immune Content in Neuroblastoma: Deep Learning and Topological Data Analysis in Digital Pathology.  
*International Journal of Molecular Sciences*, 22(16):8804, 2021
- Davide Chicco, Valery Starovoitov, and Giuseppe Jurman.  
The Benefits of the Matthews Correlation Coefficient (MCC) Over the Diagnostic Odds Ratio (DOR) in Binary Classification Assessment.  
*IEEE Access*, 9:47112–47124, 2021
- Davide Chicco and Giuseppe Jurman.  
The advantages of the Matthews correlation coefficient (MCC) over F1 score and accuracy in binary classification evaluation.  
*BMC Genomics*, 21(6):6, 2020
- Ombretta Melaiu, Marco Chierici, Valeria Lucarini, Giuseppe Jurman, Libenzio Adrian Conti, Rita De Vito, Renata Boldrini, Loredana Cifaldi, Aurora Castellano, Cesare Furlanello, Vincenzo Barnaba, Franco Locatelli, and Doriana Fruci.  
Cellular and gene signatures of tumor-infiltrating dendritic cells and natural-killer cells predict prognosis of neuroblastoma.  
*Nature Communications*, 11(1), 2020
- Nina Verstraete, Giuseppe Jurman, Giulia Bertagnolli, Arsham Ghavasieh, Vera Pancaldi, and Manlio De Domenico.  
CovMulNet19, integrating proteins, diseases, drugs, and symptoms: A network medicine approach to COVID-19.  
*Network and Systems Medicine*, 3(1):130–141, 2020
- Davide Chicco and Giuseppe Jurman.  
Survival prediction of patients with sepsis from age, sex, and septic episode number alone.  
*Scientific Reports*, 10(1), 2020
- Francesco Saverio Sorrentino, Giuseppe Jurman, Katia De Nadai, Claudio Campa, Cesare Furlanello, and Francesco Parmeggiani.  
Application of Artificial Intelligence in Targeting Retinal Diseases.  
*Current Drug Targets*, 21(12):1208–1215, 2020
- Gabriele Franch, Valerio Maggio, Luca Coviello, Marta Pendesini, Giuseppe Jurman, and Cesare Furlanello.  
TAASRAD19, a high-resolution weather radar reflectivity dataset for precipitation now-casting.  
*Scientific Data*, 7(1), 2020
- Luca Coviello, Marco Cristoforetti, Giuseppe Jurman, and Cesare Furlanello.  
GBCNet: In-field grape berries counting for yield estimation by dilated CNNs.  
*Applied Sciences*, 10(14):4870, 2020
- Marco Chierici, Nicole Bussola, Alessia Marcolini, Margherita Francescato, Alessandro Zandonà, Lucia Trastulla, Claudio Agostinelli, Giuseppe Jurman, and Cesare Furlanello.  
Integrative Network Fusion: A Multi-Omics Approach in Molecular Profiling.  
*Frontiers in Oncology*, 10, 2020

- Gabriele Franch, Daniele Nerini, Marta Pendesini, Luca Coviello, Giuseppe Jurman, and Cesare Furlanello.  
Precipitation Nowcasting with Orographic Enhanced Stacked Generalization: Improving Deep Learning Predictions on Extreme Events.  
*Atmosphere*, 11(3):267, 2020
- Marco Chierici, Margherita Francescato, Nicole Bussola, Giuseppe Jurman, and Cesare Furlanello.  
Predictability of drug-induced liver injury by machine learning.  
*Biology Direct*, 15:3, 2020
- Davide Chicco and Giuseppe Jurman.  
Machine learning can predict survival of patients with heart failure from serum creatinine and ejection fraction alone.  
*BMC Medical Informatics and Decision Making*, 20:16, 2020
- G. Franch, G. Jurman, L. Coviello, M. Pendesini, and C. Furlanello.  
MASS-UMAP: Fast and Accurate Analog Ensemble Search in Weather Radar Archives.  
*Remote Sensing*, 11(24):2922, 2019
- P. Brown, The RELISH Consortium, and Y. Zhou.  
Large expert-curated database for benchmarking document similarity detection in biomedical literature search.  
*Database*, 2019:baz085, 2019
- G. Jurman.  
Seasonal Linear Predictivity in National Football Championships.  
*Big Data*, 7:21–34, 2019
- A. Bizzego, N. Bussola, M. Chierici, V. Maggio, M. Francescato, L. Cima, M. Cristoforetti, G. Jurman, and C. Furlanello.  
Evaluating reproducibility of AI algorithms in digital pathology with DAPPER.  
*PLOS Computational Biology*, 15(3):e1006269, 2019
- M. Chierici, M. Giulini, N. Bussola, G. Jurman, and C. Furlanello.  
Machine learning models for predicting endocrine disruption potential of environmental chemicals.  
*Journal of Environmental Science and Health. Part C, Environmental Carcinogenesis & Ecotoxicology Reviews*, 36:237–251, 2019
- R. Boldrini, M. D. De Pasquale, O. Melaiu, M. Chierici, G. Jurman, M. C. Benedetti, N. C. Salfi, A. Castellano, P. Collini, C. Furlanello, V. Pistoia, L. Cifaldi, M. Terenziani, and D. Fruci.  
Tumor-infiltrating T cells and PD-L1 expression in childhood malignant extracranial germ-cell tumors.  
*Oncology*, 8(2):e1542245, 2019
- D. Fioravanti, Y. Giarratano, V. Maggio, C. Agostinelli, M. Chierici, G. Jurman, and C. Furlanello.  
Phylogenetic convolutional neural networks in metagenomics.  
*BMC Bioinformatics*, 19(S2):49, 2018
- V. Maggio, M. Chierici, G. Jurman, and C. Furlanello.  
Distillation of the clinical algorithm improves prognosis by multi-task deep learning in high-risk Neuroblastoma.  
*PLOS ONE*, 13(12):e0208924, 2018
- G. Mangioni, G. Jurman, and M. De Domenico.  
Multilayer flows in molecular networks identify biological modules in the human proteome.  
*IEEE Transactions on Network Science and Engineering*, Early Access:1, 2018

- N.M. Rad, S.M. Kia, C. Zarbo, T. van Laarhoven, G. Jurman, P. Venuti, E. Marchiori, and C. Furlanello.  
Deep learning for automatic stereotypical motor movement detection using wearable sensors in autism spectrum disorders.  
*Signal Processing*, 144:180–191, 2018
- M. Francescato, M. Chierici, S. Rezvan Dezfouli, A. Zandoná, G. Jurman, and C. Furlanello.  
Multi-omics integration for neuroblastoma clinical endpoint prediction.  
*Biology Direct*, 13(1):5, 2018
- G. Jurman, V. Maggio, I. Landi, M. Francescato, M. Chierici, M. De Domenico, and C. Furlanello.  
omicsCNN: a general deep learning framework for omics data modeling and classification.  
*Human Genomics*, 12(S1):38, 2018
- O. Melaiu, M. Mina, M. Chierici, R. Boldrini, G. Jurman, P. Romania, V. D’Alicandro, M.C. Benedetti, A. Castellano, T. Liu, C. Furlanello, F. Locatelli, and D. Fruci.  
PD-L1 is a therapeutic target of the Bromodomain inhibitor JQ1 and, combined with HLA class I, a promising prognostic biomarker in neuroblastoma.  
*Clinical Cancer Research*, 23(15):4462–4472, 2017
- G. Jurman.  
Metric projection for dynamic multiplex networks.  
*Heliyon*, 2(7):e00136, 2016
- S. Riccadonna, G. Jurman, R. Visintainer, M. Filosi, and C. Furlanello.  
DTW-MIC Coexpression Networks from Time-Course Data.  
*PLOS ONE*, 11(3):e0152648, 2016
- M. Mina, S. Magi, G. Jurman, M. Itoh, H. Kawaji, T. Lassmann, E. Arner, A.R.R. Forrest, P. Carninci, Y. Hayashizaki, C.O. Daub, The FANTOM Consortium, M. Okada-Hatakeyama, and C. Furlanello.  
Promoter-level expression clustering identifies time development of transcriptional regulatory cascades initiated by ErbB receptors in breast cancer cells.  
*Nature Scientific Report*, 5:11999, 2015
- A. Gobbi and G. Jurman.  
A null model for Pearson correlation networks.  
*PLOS ONE*, 10(6):e0128115, 2015
- D. Fay, A.W. Moore, K. Brown, M. Filosi, and G. Jurman.  
Graph metrics as summary statistics for Approximate Bayesian Computation with application to network model parameter estimation.  
*IMA Journal of Complex Networks*, 3:52–83, 2015
- Hiromasa Morikawa, Naganari Ohkura, Alexis Vandenberg, Masayoshi Itoh, Sayaka Nagao-Sato, Hideya Kawaji, Timo Lassmann, Piero Carninci, Yoshihide Hayashizaki, Alistair RR Forrest, Daron M Standley, Hiroshi Date, Shimon Sakaguchi, and The FANTOM consortium.  
Differential roles of epigenetic changes and Foxp3 expression in regulatory T cell-specific transcriptional regulation.  
*Proceedings of the National Academy of Sciences*, 111(14):5289–5294, 2014
- M. Filosi, R. Visintainer, S. Riccadonna, G. Jurman, and C. Furlanello.  
Stability Indicators in Network Reconstruction.  
*PLOS ONE*, 9(2):e89815, 2014
- A. Gobbi, F. Iorio, K.J. Dawson, D.C. Wedge, D. Tamborero, L.B. Alexandrov, N. Lopez-Bigas, M.J. Garnett, G. Jurman, and J. Saez-Rodriguez.  
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## (Selected) Invited talks

Title	AI per il bioimaging clinico: prospettive future del machine learning per le scienze della vita
Venue	Intelligenza artificiale: definizioni, etica, strategia, prospettive 2023, Milan (I)
Date	July 2023
Title	Data Science for Health @ Fondazione Bruno Kessler: methods, assets and projects
Venue	CompMat Spring Workshop 2023, Pavia (I)
Date	May 2023
Title	L'integrazione digitale dei dati -omici: sogno o realtà?
Venue	L'intelligenza artificiale in diagnostica per immagini: l'evoluzione del digitale per una sanità pubblica sostenibile, Trento (I)
Date	May 2023
Title	Prospettive dell'utilizzo dell'intelligenza artificiale a supporto della tecnologia
Venue	Il Cuore del Salento 2023, Lecce (I)
Date	March 2023
Title	Novel geometrical approaches for data science in digital pathology: a case study in neuroblastoma
Venue	22nd International Symposium on Mathematical and Computational Biology (BIOMAT), online
Date	November 2022
Title	Prospettive dell'utilizzo dell'intelligenza artificiale a supporto della telecardiologia
Venue	IV Congresso Nazionale di Telecardiologia, Florence (I)
Date	September 2022
Title	Novel geometrical approaches for data science in digital pathology: a case study in neuroblastoma
Venue	3rd Annual Meeting of the European Society for Paediatric Oncology (SIOP), online
Date	March 2022
Title	Towards a scientific blockchain framework for reproducible data analysis
Venue	BlockNet Workshop - NetSci 2018, Paris (F)
Date	June 2018
Title	Differential network analysis and graph classification: a glocal approach
Venue	Altschuler & Wu Lab, UCSF, San Francisco (US)
Date	May 2016
Title	Differential network analysis and graph classification: a glocal approach
Event	Bringing Maths to Life (BMTL) 2015
Venue	Naples (I)
Date	Oct 2015
Title	Microbial Communities & Individual Health Trajectories
Event	Microbiota: salute, terme e alimentazione 2015
Venue	Comano Terme (I)
Date	Oct 2015

Title	Thresholding Pearson coexpression networks
Venue	Janssen J& J Pharmaceutical Companies, Philadelphia (US)
Date	May 2015
Title	Applications of streaming data environments for health and safety
Event	Streaming Analytics Advanced Technologies (SAAT) 2014
Venue	Bournemouth (UK)
Date	Mar 2014
Title	Network biology & network medicine
Event	Copenhagenomics CPHx 2012
Venue	Copenhagen (DK)
Date	Jun 2012

## Reviewing Activity

Reviewer 88 Journals and Conferences

## Professional Memberships

Academic Boards	<p>Doctoral Committee, ICT International Doctoral School, University of Trento, 2019-ongoing</p> <p>Teaching Board, PhD in Computational Mathematics, Learning and Data Science, University of Pavia, 2023-ongoing</p> <p>Teaching Board, PhD in Biomolecular Sciences, University of Trento, 2021-ongoing</p> <p>Doctoral Committee, PhD in Smart Computing, Universities of Florence, Pisa, Siena and Bruno Kessler Foundation, 2015-2017</p> <p>Management Committee, M.Sc. in Data Science, University of Trento, 2017-2022</p>
Conference Boards	<p>Special Session Organizer, 18th Conference on Computational Intelligence Methods for Bioinformatics &amp; Biostatistics 2023</p> <p>Special Session Organizer, 17th Conference on Computational Intelligence Methods for Bioinformatics &amp; Biostatistics 2021</p> <p>Local Organizer, 3st International MAQC Conference 2019</p> <p>Workshop Organizers, 1st International Workshop on Deep Learning for Precision Medicine, in conjunction with ECML-PKDD 2016</p> <p>Program Committee, International Conference on Bioinformatics Models, Methods and Algorithms, 2012-2017</p> <p>Program Committee, IEEE International Conference on Healthcare Informatics 2015</p> <p>Program Committee, IAPR International Conference on Pattern Recognition in Bioinformatics &amp; International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics 2013</p> <p>Program Committee, IAPR International Conference on Pattern Recognition in Bioinformatics 2012</p> <p>Organizing Committee, 11th MGED International Meeting of the Microarray and Gene Expression Data Society 2008</p>

Trento, December 5, 2023

Acconsento alla pubblicazione del mio CV in ottemperanza alle disposizioni di legge dettate in materia di trasparenza (D.Lgs. 33/2013).

Consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, il sottoscritto dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità.

Autorizzo il trattamento dei miei dati personali ai sensi della normativa vigente in materia di protezione dei dati personali e, in particolare, del Codice Europeo per la protezione dei dati personali 2016/679, del Decreto Legislativo n. 196 del 30/06/2003 e successive modifiche ed integrazioni.