

# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s)

**Giuseppe Jurman**

Address(es)

Fondazione Bruno Kessler  
via Sommarive 18 – Povo  
I-38123 Trento  
Italy

Telephone(s)

+39 0461 314 523

Fax(es)

+39 0461 314 591

Email(s)

jurman@fbk.eu

Nationality(-ies)

Date of birth

## Occupational field

Data Scientist

## Work experience

Dates

Jan 20

Occupation or position held

Head of MPBA Research Unit, Fondazione Bruno Kessler

Dates

Jan 08 - Dec 19

Occupation or position held

Senior Researcher at Fondazione Bruno Kessler, Research Unit MPBA

Dates

Jan 06 - Dec 07

Occupation or position held

Junior Researcher at Fondazione Bruno Kessler, Research Unit MPBA

Dates

Jan 03 - Dec 05

Occupation or position held

PostDoc Fellow at Fondazione Bruno Kessler, Research Unit MPBA

Dates

Jun 01 - Dec 02

Occupation or position held

PostDoc Fellow at University of Trento, Department of Mathematics

Dates

Feb 01 - Jun 01

Occupation or position held

Programmer at Netwise, snc

Dates

Feb 99 - Feb 01

Occupation or position held

PostDoc Fellow at Center for Mathematics and Applications, Australian National University (Canberra)

## Education and training

Dates

Nov 98

Title of qualification awarded

Ph. D.

Principal subjects

Mathematics

Name and type of organization  
providing education and training

University of Trento (Prof. A. Caranti)

Dates

Jul 93

Title of qualification awarded  
Principal subjects  
Name and type of organization  
providing education and training

M. Sc. (Laurea)  
Mathematics  
University of Trento (Prof. E. Ballico)

## 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, Bioinformatics, Machine Learning, Deep Learning, Computational Biology

Algebra

Network theory, Group theory, Lie algebras, Combinatorics

## Teaching experience

Event

WebValley FBK International Summer School

Role

Director

Year

2009-2019 (11 editions)

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

Ongoing

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	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
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	Algebraic reconstruction of gene regulatory networks
Student	Andrea Gobbi
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2010
Title	Algebraic reconstruction of gene regulatory networks
Student	Andrea Gobbi
Institution	M.Sc. in Mathematics, University of Trento
Role	Thesis Supervisor
Year	2010
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 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	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
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
Course	Data Visualization Lab
Institution	M. Sc. Data Science, University of Trento
Role	Lecturer
Year	2018/19
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	Algebra I
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)**

25

OrcID

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

ScopusID

6602367398

Refereed Journals

D. Chicco and G. Jurman.

The advantages of the Matthews correlation coefficient (MCC) over F1 score and accuracy in binary classification evaluation.

*BMC Genomics*, 21(6):6, 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
- 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.  
Fast randomization of large genomics datasets while preserving alteration counts.  
*Bioinformatics*, 30(17):i617–i623, 2014
- C. Wang, B. Gong, P.R. Bushel, J. Thierry-Mieg, D. Thierry-Mieg, J. Xu, H. Fang, H. Hong, J. Shen, Z. Su, J. Meehan, X. Li, L. Yang, H. Li, P.P. Labaj, D.P. Krell, D. Megherbi, S. Gaj, F. Calment, J. van Delft, J. Kleinjans, A. Sherer, V. Devanarayan, J. Wang, Y. Yang, H.-R. Qian, L.J. Lancashire, M. Bessarabova, Y. Nikolsky, C. Furlanello, M. Chierici, D. Albanese, G. Jurman, S. Riccadonna, M. Filosi, R. Visintainer, K.K. Zhang, J. Li, J.-H. Hsieh, D.L. Svoboda, J.C. Fuscoe, Y. Deng, L. Shi, R.S. Paules, S.S. Auerbach, and W. Tong.  
The concordance between RNA-Seq and microarray data depends on chemical treatment and transcript abundance.  
*Nature Biotechnology*, 32(9):926–932, 2014
- The Fantom5 Consortium.  
A promoter-level mammalian expression atlas.  
*Nature*, 507:462–470, 2014
- D. Albanese, M. Filosi, R. Visintainer, S. Riccadonna, G. Jurman, and C. Furlanello.  
minepy and minerva: a C engine for the MINE suite and its Python, R and MATLAB wrappers.  
*Bioinformatics*, 29(3):407–408, 2013
- S. Merler and G. Jurman.  
A combinatorial model of malware diffusion via Bluetooth connections.  
*PLOS ONE*, 8(3):e59468, 2013
- R. Sanz-Pamplona, A. Berenguer, D. Cordero, S. Riccadonna, X. Solé, M. Crous-Bou, E. Guinó, X. Sanjuan, S. Biondo, A. Soriano, G. Jurman, G. Capella, C. Furlanello, and V. Moreno.  
Clinical value of prognosis gene expression signatures in colorectal cancer: a systematic review.  
*PLOS ONE*, 7(11):e48877, 2012
- B. di Camillo, T. Sanavia, M. Martini, G. Jurman, C. Furlanello, F. Sambo, A. Barla, M. Squillario, G. Toffolo, and C. Cobelli.  
Effect of size and heterogeneity of samples on biomarker discovery: synthetic and real data assessment.  
*PLOS ONE*, 7(3):e32200, 2012
- G. Jurman, S. Riccadonna, and C. Furlanello.  
A comparison of MCC and CEN error measures in multi-class prediction.  
*PLOS ONE*, 7(8):e41882, 2012
- G. Jurman, S. Riccadonna, R. Visintainer, and C. Furlanello.  
Algebraic Comparison of Partial Lists in Bioinformatics.  
*PLOS ONE*, 7(5):e36540, 2012
- M. Grimaldi, R. Visintainer, and G. Jurman.  
RegnANN: Reverse Engineering Gene Networks using Artificial Neural Networks.  
*PLOS ONE*, 6(12):e28646, 2011

- The MicroArray Quality Control (MAQC) Consortium.  
The MAQC-II Project: A comprehensive study of common practices for the development and validation of microarray-based predictive models.  
*Nature Biotechnology*, 28(8):827–838, 2010
- W. Shi, M. Bessarabova, D. Dosymbekov, Z. Dezso, T. Nikolskaya, M. Dudoladova, T. Serebryiskaya, A. Bugrim, R.J. Brennan, R. Shah, J. Dopazo, M. Chen, Y. Deng, T. Shi, G. Jurman, C. Furlanello, R.S. Thomas, J.C. Corton, W. Tong, L. Shi, and Y. Nikolsky.  
Functional analysis of multiple genomic signatures demonstrates that classification algorithms choose phenotype-related genes.  
*The Pharmacogenomics Journal*, 10:310–323, 2010
- G. Guzzetta, G. Jurman, and C. Furlanello.  
A machine learning pipeline for quantitative phenotype prediction from genotype data.  
*BMC Bioinformatics*, 11(Supp.8):S3, 2010
- M. Avitabile, G. Jurman, and S. Mattarei.  
The structure of thin Lie algebras with characteristic two.  
*International Journal of Algebra and Computation*, 20(6):731–768, 2010
- J.P.A. Ioannidis, D.B. Allison, C.A. Ball, I. Coulibaly, X. Cui, Culhane. A.C., M. Falchi, C. Furlanello, L. Game, G. Jurman, T. Mehta, J. Mangion, M. Nitzberg, G.P. Page, E. Petretto, and V. van Noort.  
Repeatability of published microarray gene expression analyses.  
*Nature Genetics*, 41(2):499–505, 2009
- G. Jurman, S. Merler, A. Barla, S. Paoli, A. Galea, and C. Furlanello.  
Algebraic stability indicators for ranked lists in molecular profiling.  
*Bioinformatics*, 24(2):258–264, 2008
- A. Barla, G. Jurman, S. Riccadonna, M. Chierici, S. Merler, and C. Furlanello.  
Machine learning methods for predictive proteomics.  
*Briefings in Bioinformatics*, 9(2):119–128, 2008
- S. Paoli, G. Jurman, D. Albanese, S. Merler, and C. Furlanello.  
Integrating gene expression profiling and clinical data.  
*International Journal of Approximate Reasoning*, 47(1):58–69, 2008
- S. Riccadonna, G. Jurman, S. Merler, S. Paoli, A. Quattrone, and C. Furlanello.  
Supervised classification of combined copy number and gene expression data.  
*Journal of Integrative Bioinformatics*, 4(3):74, 2007
- M. Cannataro, A. Barla, R. Flor, A. Gallo, G. Jurman, S. Merler, S. Paoli, G. Tradigo, P. Veltri, and Furlanello.  
A grid environment for high-throughput proteomics.  
*IEEE Transactions on Nanobioscience*, 6(2):117–123, 2007
- M.L. Ciofi degli Atti, C. Rizzo, A. Bella, M. Massari, M. Iannelli, A. Lunelli, A. Pugliese, J. Ripoll, P. Manfredi, G. Scalia Tomba, S. Merler, G. Jurman, and C. Furlanello.  
Modelling scenarios of diffusion and control of pandemic influenza, Italy.  
*Eurosurveillance*, 12(1):E070104.2, 2007
- C. De Pittá, L. Tombolan, G. Albiero, F. Sartori, C. Romualdi, G. Jurman, M. Carli, C. Furlanello, G. Lanfranchi, and A. Rosolen.  
Gene expression profiling identifies potential relevant genes in alveolar rhabdomyosarcoma pathogenesis and discriminates PAX3-FKHR positive and negative tumors.  
*International Journal of Cancer*, 118(11):2772–2781, 2006
- C. Furlanello, S. Merler, and G. Jurman.  
Combining feature selection and DTW for time-varying functional genomics.  
*IEEE Transactions on Signal Processing*, 54(6):2436–2443, 2006



- S. Merler and G. Jurman.  
Terminated Ramp - Support Vector Machine: a nonparametric data dependent kernel.  
*Neural Networks*, 19:1597–1611, 2006
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
Semi-supervised learning for molecular profiling.  
*IEEE Transactions on Computational Biology and Bioinformatics*, 2(2):110–118, 2005
- G. Jurman.  
Graded Lie algebras of maximal class, III.  
*Journal of Algebra*, 284(2):435–461, 2005
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
Methods for predictive classification and molecular profiling from DNA microarray data.  
*Italian Heart Journal*, 5(1):199–202, 2004
- G. Jurman.  
A family of simple Lie algebras in characteristic two.  
*Journal of Algebra*, 271(2):454–481, 2004
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
Control of selection bias in microarray data analysis.  
*Minerva Biotecnologica*, 15(4):217–222, 2003
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
Entropy-Based Gene Ranking without Selection Bias for the Predictive Classification of Microarray Data.  
*BMC Bioinformatics*, 4:54, 2003
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
An accelerated procedure for recursive feature ranking on microarray data.  
*Neural Networks*, 16(5–6):641–648, 2003
- M. Avitabile and G. Jurman.  
Diamonds in thin Lie algebras.  
*Bollettino della Unione Matematica Italiana B*, 4(3):597–608, 2001
- A. Caranti and G. Jurman.  
Quotients of maximal class of thin Lie algebras. The odd characteristic case.  
*Communications in Algebra*, 28(12):5741–5748, 1999
- G. Jurman.  
Quotients of maximal class of thin Lie algebras. The case of characteristic two.  
*Communications in Algebra*, 28(12):5749–5789, 1999
- Book Chapters
- G. Jurman, M. Filosi, R. Visintainer, S. Riccadonna, and C. Furlanello.  
*Stability in GRN inference*, volume 786 of *Methods in Molecular Biology*, pages 323–346.  
Springer, 2019
- G. Jurman, M. Filosi, S. Riccadonna, R. Visintainer, and C. Furlanello.  
Differential network analysis and graph classification: a glocal approach.  
In A. Rogato, V. Zazzu, and M. Guarracino, editors, *Dynamics of Mathematical Methods in Biology – Bringing Math to Life*, page 268. Springer, 2016
- A. Barla, G. Jurman, R. Visintainer, M. Squillario, M. Filosi, S. Riccadonna, and C. Furlanello.  
A Machine Learning Pipeline for Discriminant Pathways Identification.  
In N. Kasabov, editor, *Springer Handbook of Bio-/Neuroinformatics*. Springer, 2013

- C. Furlanello, G. Jurman, C. Dolci, R. Villani, E. Gadotti, and P. Venuti.  
Talents and technology: training the artificial intelligence generation.  
In *Proc. IV Talent Education 2019*, pages 21–35. MIB, 2019
- N.M. Rad, S.M. Kia, C. Zarbo, G. Jurman, P. Venuti, and C. Furlanello.  
Stereotypical motor movement detection in dynamic feature space.  
In IEEE, editor, *Proceedings Workshop Data Mining in Human Activity Analysis in International Conference in Data Mining (ICDM DHAA 2016)*, page in press, 2016
- G. Jurman, R. Visintainer, M. Filosi, S. Riccadonna, and C. Furlanello.  
The HIM glocal metric and kernel for network comparison and classification.  
In *Proceedings IEEE International Conference on Data Science and Advanced Analytics (DSAA'2015)*. IEEE, 2015
- N.M. Rad, A. Bizzego, S.M. Kia, G. Jurman, P. Venuti, and C Furlanello.  
Convolutional Neural Networks for Stereotypical Motor Movements Detection in Autism.  
Online Proceedings of NIPS 2015 Workshop on Machine Learning and Interpretation in Neuroimaging (MLINI 2015) <http://arxiv.org/html/1605.04435>, 2015.  
Paper MLINI/2015/13 – arXiv:1511.01865
- A. Barla, G. Jurman, R. Visintainer, M. Squillario, M. Filosi, S. Riccadonna, and C. Furlanello.  
A Machine Learning Pipeline for Discriminant Pathways Identification.  
In E. Biganzoli, A. Vellido, F. Ambrogi, and R. Tagliaferri, editors, *Computational Intelligence Methods for Bioinformatics and Biostatistics*, volume 7548 of *Lecture Notes in Computer Science*, pages 36–48. Springer, 2012
- A. Barla, G. Jurman, R. Visintainer, M. Squillario, M. Filosi, S. Riccadonna, and C. Furlanello.  
A machine learning pipeline for discriminant pathways identification.  
In *Proc. CIBB 2011*, 2011
- G. Jurman, R. Visintainer, and C. Furlanello.  
An introduction to spectral distances in networks.  
*Frontiers in Artificial Intelligence and Applications*, 226:227–234, 2011
- G. Jurman, S. Riccadonna, R. Visintainer, and C . Furlanello.  
Canberra Distance on Ranked Lists.  
In *Proceedings Advances in Ranking NIPS 2009 Workshop*, pages 22–27. NIPS, 2009
- S. Merler, M. Ajelli, G. Jurman, C. Furlanello, C. Rizzo, A. Bella, M. Massari, and M.L. Ciofi degli Atti.  
Modeling influenza pandemic in Italy: an individual based approach.  
In *Proceedings. ICISS 2007*. ISTAT, 2007
- S. Merler, G. Jurman, and C. Furlanello.  
Deriving the Kernel from Training Data.  
In *Proceedings MCS 2007*, volume 4472 of *Lecture Notes in Computer Science*, pages 32–41. Springer, 2007
- S. Merler, G. Jurman, C. Furlanello, C. Rizzo, A. Bella, M. Massari, and M.L. Ciofi degli Atti.  
Strategies for containing an influenza pandemic: the case of Italy.  
In *Proceedings Bionetics 2006*, page 11. IEEE, 2006
- A. Barla, B. Irlor, S. Merler, G. Jurman, S. Paoli, and C. Furlanello.  
Proteome profiling without selection bias.  
In *Proceedings IEEE/CBMS 2006*, pages 941–946. IEEE, 2006

- S. Paoli, G. Jurman, D. Albanese, S. Merler, and C. Furlanello.  
Semisupervised Profiling of Gene Expressions and Clinical Data.  
In *Proceedings WILF 2005*, volume 3849 of *Lecture Notes in Computer Science*, pages 284–289. Springer, 2006
- S. Merler, C. Furlanello, and G. Jurman.  
Machine learning on historic air photographs for mapping risk of unexploded bombs.  
In *Proceedings ICIAP 2005*, volume 3617 of *Lecture Notes in Computer Science*, pages 735–742. Springer, 2005
- B. Caprile, S. Merler, C. Furlanello, and G. Jurman.  
Exact bagging with k-nearest neighbour classifiers.  
In *Proceedings MCS 2004*, volume 3077 of *Lecture Notes in Computer Science*, pages 72–81. Springer, 2004
- C. Furlanello, M. Serafini, S. Merler, and G. Jurman.  
Gene selection and classification by entropy-based recursive feature elimination.  
In *Proceedings of IJCNN 2003*, pages 3077–3082. IEEE, 2003
- Preprints
- L. Coviello, M. Cristoforetti, G. Jurman, and C. Furlanello.  
In-field grape berries counting for yield estimation using dilated CNNs.  
arXiv:1909.12083, 2019
- N. Bussola, A. Marcolini, V. Maggio, G. Jurman, and C. Furlanello.  
Not again! Data Leakage in Digital Pathology.  
arXiv:1909.06539, 2019
- G. Mangioni, G. Jurman, and M. De Domenico.  
Multilayer flows in molecular networks identify biological modules in the human proteome.  
arXiv:1801.10144, 2018
- A. Bizzego, N. Bussola, M. Chierici, M. Cristoforetti, M. Francescato, V. Maggio, G. Jurman, and C. Furlanello.  
Evaluating reproducibility of AI algorithms in digital pathology with DAPPER.  
biorXiv:340646
- V. Maggio, M. Chierici, G. Jurman, and C. Furlanello.  
A multiobjective deep learning approach for predictive classification in Neuroblastoma.  
arXiv:1711.08198, 2017
- C. Furlanello, M. De Domenico, G. Jurman, and N. Bussola.  
Towards a scientific blockchain framework for reproducible data analysis.  
arXiv:1707.06552, 2017
- M. Cristoforetti, G. Jurman, A. Nardelli, and C. Furlanello.  
Towards meaningful physics from generative models.  
arXiv:1705.09524, 2017
- F. Iorio, A. Gobbi, T. Cokelaer, M.B. Faura, G. Jurman, and J. Saez Rodriguez.  
Efficient randomization of biological networks while preserving functional characterization of individual nodes.  
bioRxiv-doi:10.1101/069245, 2016
- M. Cristoforetti, M. Guerini, G. Jurman, and C. Furlanello.  
Community dynamics in connected time-dependent multilayer networks.  
arXiv:1511.03447, 2015
- G. Jurman.  
Seasonal Linear Predictivity in National Football Championships.  
arXiv:1511.06262, 2015

M. Mina, G. Jurman, and C. Furlanello.  
CIDER: a pipeline for detecting waves of coordinated transcriptional regulation in gene expression time-course data.  
bioRxiv-doi:10.1101/012518, 2015

M. Filosi, S. Droghetti, E. Arbitrio, R. Visintainer, S. Riccadonna, G. Jurman, and C. Furlanello.  
ReNette: a web-infrastructure for reproducible network analysis.  
bioRxiv-doi:10.1101/008433, 2014

G. Lami, M. Cristoforetti, G. Jurman, C. Furlanello, and T. Furlanello.  
Entropy Dynamics of of Community Alignment of the Italian Parliament Time-Dependent Network.  
arXiv:1411.0827, 2014

T. Furlanello, M. Cristoforetti, C. Furlanello, and G. Jurman.  
Sparse Predictive Structure of Deconvolved Functional Brain Networks.  
arXiv:1310.6547, 2013

A. Barla, S. Riccadonna, S. Masecchia, M. Squillario, M. Filosi, G. Jurman, and C. Furlanello.  
Evaluating sources of variability in pathway profiling.  
arXiv:1201.3216, 2012

D. Albanese, R. Visintainer, S. Merler, S. Riccadonna, G. Jurman, and C. Furlanello.  
mlpy: Machine Learning Python.  
arXiv:1202.6548, 2012

M. Chierici, G. Jurman, M. Roncador, and C. Furlanello.  
Single-base mismatch profiles for NGS samples.  
arXiv:1109.1108, 2011

G. Jurman, S. Riccadonna, R. Visintainer, and C. Furlanello.  
Biological network comparison via Ipsen-Mikhailov distance.  
arXiv:1109.0220, 2011

G. Jurman.  
(Finite) presentations of Bi-Zassenhaus loop algebras.  
arXiv:1004.1482v1, 2010

Ph.D. Thesis

G. Jurman.  
*On graded Lie algebras in characteristic two.*  
PhD thesis, University of Trento, Italy, 1998

## (Selected) Invited talks

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

Journal	<p>Artificial Intelligent          Bioinformatics          BMC Bioinformatics          Briefings in Bioinformatics          Chemometrics and Intelligent Laboratory Systems          Computational Biology and Chemistry          Computational and Structural Biotechnology Journal          Computer Methods and Programs in Biomedicine          Entropy          Journal of Complex Networks          Journal of Pharmacological and Toxicological Methods          Plos One          Scientific Data          Sensors          Statistical Applications in Genetics and Molecular Biology          The Computer Journal          Transactions on Computational Biology and Bioinformatics          Transactions on Neural Networks and Learning Systems</p>
Conferences	<p>ACM-SIAM Symposium on Discrete Algorithms (SODA)          ACM SIGKDD Conferences on Knowledge Discovery and Data Mining          Bringing Maths to Life          European Conference on Computational Biology (ECCB)          IAPR International Conference on Pattern Recognition in Bioinformatics (PRIB)          IAPR International Conference on Pattern Recognition in Bioinformatics (PRIB) &amp;          International Meeting on Computational Intelligence Methods for Bioinformatics and          Biostatistics (CIBB)          IARIA Data Analytics          IEEE International Conference on Healthcare Informatics (ICHI)          International Conference on Bioinformatics Models, Methods and Algorithms          International Workshop on Multiple Classifier Systems (MCS)          Neural Information Processing Systems (NIPS)</p>

## Professional Memberships

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

Trento, January, the 25<sup>th</sup> 2020

Autorizzo il trattamento dei miei dati personali ai sensi del D.lgs. 196 del 30 giugno 2003  
Acconsento alla pubblicazione del mio CV in ottemperanza alle disposizioni di legge dettate in materia di trasparenza (D.Lgs. 33/2013)