## Simone Marini

University of Florida
Department of Epidemiology
2004 Mowry Rd,
Gainesville, FL 32610
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#### Education

09/2008-11/2012 PhD., Bioengineering. Thesis: "Qualitative and quantitative protein interaction prediction with machine learning". Division of Bioengineering, Hong Kong University of Science and Technology, Hong Kong

10/2004-12/2007 MSc, Biomedical Engineering. Thesis: "Design of a classifier by coevolution of genetic algorithms and genetic programming". Electrical, Computer and Biomedical Engineering department, University of Pavia, Italy

10/2000-03/2004 BSc, Biomedical Engineering. Thesis: "Bone tissue engineering, effects of mechanical shear stress on human osteoblast SAOS2". Electrical, Computer and Biomedical Engineering department, University of Pavia, Italy

# **Professional Appointments**

#### Research Assistant Professor

06/2020-present Department of Epidemiology, University of Florida, Gainesville, FL, USA

## Research Assistant Scientist

01/2020-05/2020 Department of Epidemiology, University of Florida, Gainesville, FL, USA

# Research Investigator

08/2017-12/2019 Department of Surgery, and Department of Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, USA

#### Postdoctoral Fellow

12/2016-07/2017	Laboratory of Biomedical Informatics, University of Pavia, Italy
12/2015-11/2016	Laboratory of Mathematical Bioinformatics, University of Kyoto, Japan
01/2013-11/2015	Laboratory of Biomedical Informatics, University of Pavia, Italy

#### **Publications**

## (Google Scholar profile)

[\*] denotes equal contribution. [§] denotes corresponding (senior) authorship.

## Journals (peer reviewed)

- Exploring Prediction of Antimicrobial Resistance Based on Protein Solvent Accessibility Variation. Marini S, Oliva M, Slizovskiy IB, Noyes NR, Boucher C, Prosperi M. Frontiers in Genetics 2021
- Brain tissue transcriptomic analysis of SIV-infected macaques identifies several altered metabolic pathways linked to neuropathogenesis and poly (ADP-ribose) polymerases (PARPs) as potential therapeutic targets. Mavian C, Ramirez-Mata AS, Dollar JJ, Nolan DJ, Cash M, White K, Rich SN, Magalis BR, Marini S, Prosperi MC, Amador DM. B. Journal of neurovirology 2021
- 3. Earliest detection to date of SARS-CoV-2 in Florida: Identification together with influenza virus on the main entry door of a university building. Lednicky J, Salemi M, Subramaniam K, Waltzek TB, Sabo-Attwood T, Loeb JC, Hentschel S, Tagliamonte MS, Marini S, Alam MM, Stephenson CJ. *PloS One 2021*
- 4. Novel lineage-tracing system to identify site-specific ectopic bone precursor cells. Pagani CA, Huber AK, Hwang C, **Marini S**, Padmanabhan K, Livingston N, Nunez J, Sun Y, Edwards N, Cheng YH, Visser N. *Stem Cell Reports 2021*
- 5. Do local curriculum scores correlate with national residency test results? A pluriannual, nationwide survey of Italian Medical Universities. Tarchi L, Damiani S, **Marini S**, Cappelli C, Liuzzi G, Minerva M, Politi P. *Italian Journal of Medicine 2021*
- Current Understanding of Ultraviolet-C Decontamination of N95 Filtering Facepiece Respirators. Grist SM, Geldert A, Gopal A, Su A, Balch HB, Herr AE, N95DECON Consortium. Applied Biosafety 2021
- 7. Heat and Humidity for Bioburden Reduction of N95 Filtering Facepiece Respirators. Anderegg L, Doyle J, Gardel ML, Gupta A, Hallas C, Lensky Y, Love NG, Lucas BA, Mazenc E, Meisenhelder C, Pillarisetti A, **Members of the N95DECON Consortium**. *Applied Biosafety 2021*
- 8. A snapshot of SARS-CoV-2 genome availability up to April 2020 and its implications. **Marini S\***, Mavian C\*, Prosperi M, Salemi M, *JMIR Public Health and Surveillance 2020*
- Endogenous CCN family member WISP1 inhibits trauma-induced heterotopic ossification. Ching-Yun HG, **Marini S**, Negri S, Wang Y, Xu J, Pagani C, Hwang C, Stepien D, Meyers CA, Miller S, McCarthy E, Lyons EK, Levi B, James AW. *JCI insight* 2020
- 10. Small molecule inhibition of non-canonical (TAK1-mediated) BMP signaling results in reduced chondrogenic ossification and heterotopic ossification in a rat model of blast-associated combat-related lower limb trauma. Strong AL, Spreadborough PJ, Pagani CA, Haskins RM, Dey D, Grimm PD, Kaneko K, **Marini S**, Huber AK, Hwang C, Westover K, Mishina Y, Matthew JB, Levi B, Davis TA. *Bone 2020*
- 11. Immobilization after injury alters extracellular matrix and stem cell fate. Huber AK, Patel N, Pagani CA, **Marini S**, Padmanabhan K, Matera DL, Said M, Hwang C, Hsu GC, Poli AA, Strong AL. *The Journal of Clinical Investigation 2020*

- 12. Sampling bias and incorrect rooting make phylogenetic network tracing of SARS-COV-2 infections unreliable. Mavian C, Kosakovsky Pond SL, Marini S, Magalis BR, Vandamme AM, Dellincour S, Scarpino SV, Houldcroft CJ, Villabona-Arenas J, Paisie TK, Trovão NS, Boucher C, Zhang Y, Scheuermann RH, Gascuel O, Lam TTY, Suchard MA, Abecasis A, Wilkinson E, de Oliverira T, Bento A, Schmidt HA, Martin DP, Hadefield J, Faria N, Grubaugh N, Neher R, Beale G, Lemey P, Stadler T, Albert J, Crandall KA, Leitner T, Stamatakis A, Prosperi M, Salemi M. PNAS 2020
- 13. Beneath the surface: Hyper-connectivity between caudate and salience regions in ADHD fMRI at rest. Damiani S, Tarchi L, Scalabrini A, **Marini S**, Provenzani U, Rocchetti M, Oliva F, Politi P. *European Child & Adolescent Psychiatry 2020*
- 14. Tuning Macrophage Phenotype to Mitigate Skeletal Muscle Fibrosis. Stepien DM, Hwang C, Marini S, Pagani CA, Sorkin M, Visser ND, Huber AK, Edwards MJ, Loder SJ, Vasquez K, Aguilar CA, Kumar R, Mascharak S, Longaker MT, Li J, Levi L. The journal of immunology 2020
- 15. Comparative study of salivary, duodenal and fecal microbiota composition across adult celiac disease. Panelli S, Capelli E, Lupo G, Schiepatti E, Betti E, Sauta E, **Marini S**, Bellazzi R, Vanoli A, Pasi A, Cacciatore R, Bacchi S, Balestra S, Pastoris O, Frulloni L, Corazza GR, Biagi F, Ciccocioppo E. *Journal of Clinical Medicine 2020*
- 16. Perivascular fibro-adipogenic progenitor tracing during post-traumatic osteoarthritis Sono T, Hsu CY, Wang Y, Xu J, Cherief M, **Marini S**, Huber AK, Miller S, Péault B, Levi B, and James AW. *The American Journal of Pathology 2020*
- 17. Activin A does not drive post-traumatic heterotopic ossification. Hwang C, Das N, **Marini S**, Pagani CA, Huber AK, Xie LQ, Huang L, Wang L, Wen X, Nannuru K, Murphy A, Economides AN, Hatsell SJ, Levi B. *Bone 2020*
- 18. Scientific Collaboration During the COVID-19 Pandemic: N95DECON.org. Rempel D, Members of the N95DECON Consortium. Annals of Work Exposures and Health 2020
- 19. The role of neutrophil extracellular traps and TLR signaling in skeletal muscle ischemia reperfusion injury. Edwards NJ, Hwang C, **Marini S**, Pagani CA, Spreadborough PJ, Rowe CJ, Yu P, Mei A, Visser N, Li S, Hespe GE. *The FASEB Journal 2020*.
- 20. MTGO-SC, a tool to explore gene modules in single cell RNA-seq data. Nazzicari N, Vella D, Coronnello C, Di Silvestre D, Bellazzi R, **Marini S§**. *Frontiers in Genetics 2019*
- 21. Protease target prediction via matrix factorization. **Marini S\*§**, Vitali F\*, Rampazzi S, Demartini A, Akutsu T§. *Bioinformatics 2019*
- 22. Disruption of Neutrophil Extracellular Traps (NETs) Links Mechanical Strain to Post-traumatic Inflammation. Agarwal S, Shawn LJ, Cholok D, Li J, Bian J, Yalavarthi S, Li S, Carson WF, Hwang C, **Marini S**, Pagani C, Edwards N, Delano MJ, Standiford TJ, Knight JS, Kunkel SL, Mishina Y, Ward PA, Levi B. *Frontiers in Immunology 2019*
- 23. Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification Hwang C, **Marini S**, Huber AK, Stepien D, Sorkin M, Loder, S, Pagani C, Li J, Visser ND, Vasquez K, Garada MA, Li S, Xu J, Yu PB, James AW, Mishina Y, Agarwal S, Li J, Levi B. *Nature Bone Research 2019*
- 24. A comprehensive roadmap of murine spermatogenesis defined by single-cell RNA-seq. Green CD, Ma Q, Manske GL, Shami AN, Zheng X, **Marini S**, Moritiz L, Sultan C, Gurczynski SJ, Moore BB, Tallquist MD, Li JZ, Hammoud SS. *Developmental Cell 2018*

- 25. MTGO: PPI network analysis via topological and functional module identification Vella D, **Marini S§**, Vitali F, Di Silvestre D, Mauri G, and Bellazzi R. *Scientific Reports 2018*
- 26. Patient similarity by joint matrix tri-factorization to identify subgroups in precision oncology. **Marini S\***, Vitali F\*, Pala D, Demartini A, Montoli S, Zambelli A, Bellazzi R. *Jamia Open 2018*
- 27. Towards more accurate prediction of caspase cleavage sites: a comprehensive review of current methods, tools and features. Bao Y., Marini S, Tamura T, Kamada M, Maegawa S, Hosokawa H, Song J Akutsu T. Briefings in Bioinformatics 2018
- 28. Risk factors for the development of micro-vascular complications of type 2 diabetes in a single-centre cohort of patients. Chiovato L, Teliti M, Cogni G, Sacchi L, Dagliati A, **Marini S**, Tibollo V, De Cata P, Bellazzi R. *Diabetes and Vascular Disease Research* 2018
- 29. Patient similarity for precision medicine: A systematic review. Parimbelli E, **Marini S**, Sacchi L, Bellazzi R *Journal of Biomedical Informatics 2018*
- 30. A variant within the FTO confers susceptibility to diabetic nephropathy in Japanese patients with type 2 diabetes. Taira M, Imamura M, Takahashi A, Kamatani Y, Yamauchi T, Araki S, Tanaka N, van Zuydam NR, Ahlqvist E, Toyoda M, Umezono T, Kawai K, Imanishi M, Watada H, Suzuki D, Maegawa H, Babazono T, Kaku K, Kawamori R, The SUMMIT Consortium, Groop LC, McCarthy MI, Kadowaki T, Maeda S. *PloS One 2018*
- 31. Exploring Wound-Healing Genomic Machinery with a Network-Based Approach. Vitali F, **Marini S§**, Balli M, Grosemans H, Sampaolesi M, Lussier YA, Cusella De Angelis MG, Bellazzi R§. *Pharmaceuticals 2017*
- 32. Dscam1 Web Server: online prediction of Dscam1 self- and hetero-affinity. **Marini S\*§**, Nazzicari N\*, Biscarini F, Wang GZ. *Bioinformatics 2017*
- 33. Machine learning methods to predict Diabetes complications. **Marini S\***, Dagliati A\*, Sacchi L, Bellazzi R. *Journal of Diabetes Science and Technology 2017*
- 34. A data fusion approach to enhance association study in epilepsy. **Marini S§**, Limongelli I, Rizzo E, Errichiello E, Vetro A, Tan D, Zuffardi O, Bellazzi R. *Plos One 2016*
- 35. "Noisy beets": impact of phenotyping errors on genomic predictions for binary traits in Beta vulgaris. Biscarini F, Nazzicari N, Broccanello C; Stevanato P, **Marini S**. Plant Methods 2016
- 36. Trans-ethnic fine mapping highlights kidney-function genes linked to salt sensitivity. Mahajan A, Rodan AR, Le TH, Gaulton KJ, Haessler J, Stilp AM, Kamatani Y, Zhu G, Sofer T, Puri S, Schellinger JN, Chu PL, Cechova S, van Zuydam N, Arnlov J, Flessner MF, Giedraitis V, Heath AC, Kubo M, Larsson A, Lindgren CM, Madden PAF, Montgomery GW, Papanicolaou GJ, Reiner AP, Sundström J, Thornton TA, Lind L, Ingelsson E, Cai J, Martin NG, Kooperberg C, Matsuda K, Whitfield JB, Okada Y, Laurie CC, Morris AP, Franceschini N, **The SUMMIT Consortium**, BioBank Japan Project. *The American Journal of Human Genetics* 2016
- 37. Dynamic Bayesian Network model for long-term simulation of clinical complications in type 1 diabetes. **Marini S\*§**, Trifoglio E\*, Barbarini N, Sambo F, Di Camillo B, Malovini A, Manfrini M, Cobelli C, Bellazzi R. *Journal of Biomedical Informatics 2015*
- 38. PaPI: pseudo amino acid composition to score human coding variants. Limongelli I, **Marini S**, Bellazzi R. *BMC Bioinformatics 2015*

- 39. Developing a parsimonius predictor for binary traits in sugar beet (Beta vulgaris) Biscarini F, **Marini S**, Stevanato P, Broccanello C, Bellazzi R, Nazzicari N. *Molecular Breeding 2015*
- 40. Improvement of Dscam homophilic binding affinity throughout Drosophila evolution. **Marini S\***, Wang GZ\*, Ma X, Yang Q, Zhang X, Zhu Y. *BMC Evolutionary Biology 2014*
- 41. The role of SwrA, DegU and P(D3) in fla/che expression in B. subtilis. Mordini S, Osera C, **Marini S**, Scavone F, Bellazzi R, Galizzi A, Calvio C. *PLoS One 2013*
- 42. In silico Protein-Protein Interaction prediction with sequence alignment and classifier stacking. **Marini S**, Xu Q, Yang Q. *Current Protein and Peptide Science 2011*

## **Conference Papers (peer reviewed)**

- 1. KARGA: Multi-platform Toolkit for k-mer-based Antibiotic Resistance Gene Analysis of High-throughput Sequencing Data. Prosperi M\*, **Marini S\***. *IEEE International Conference on Biomedical and Health Informatics (BHI) 2021*
- 2. Assessing putative bias in prediction of anti-microbial resistance from real-world genotyping data under explicit causal assumptions. Prosperi M, **Marini S**, Boucher C, Bian J. *KDD Health Day and 2021 KDD Workshop on Applied Data Science for Healthcare 2021*
- 3. A semi-supervised learning approach for pan-cancer somatic genomic variant classification. Nicora G, **Marini S**, Limongelli I, Rizzo E, Montoli S, Tricomi FF, Bellazzi R. *Conference of Artificial Intelligence in Medicine (AIME) 2019*
- 4. Learning T2D evolving complexity from EMR and administrative data using Continuous Time Bayesian Networks. **Marini S**, Dagliati A, Sacchi L, Bellazzi R. *International Joint Conference on Biomedical Engineering System and Technology (HEALTHINF)* 2109
- A genomic data fusion framework to exploit rare and common variants for association discovery. Marini S, Limongelli I, Rizzo E, Da T, Bellazzi R. Conference of Artificial Interlligence in Medicine (AIME) 2016
- Matrix tri-factorization for miRNA-gene association discovery in acute myeloid leukemia.
   De Martini A, Marini S, Vitali F, Bellazzi R. Conference of Artificial Intelligence in Medicine (AIME) 2016

#### **Conference Abstracts (peer reviewed)**

- 1. Learning antimicrobial resistance through secondary structure of protein variant. **Marini S**, Slizovskiy I, Noyes N, Boucher C, Prosperi M. *International Conference on Intelligent Systems for Molecular Biology (ISMB) 2020*
- 2. Optimizing viral genome subsampling by genomic diversity and temporal distribution. **Marini S**, Mavian C, Salemi M, Rife Magalis B. *COVID-19 Dynamics & Evolution 2020*
- 3. Dynamic identification of viral transmission epicenters. Rife Magalis B, **Marini S**, Salemi M, Prosperi M. *International Conference on Intelligent Systems for Molecular Biology (ISMB) 2020*
- 4. Identifying The Myeloid Subpopulation Responsible For Tissue Fibrosis Across Organ Systems Via Machine Learning Parameterization And Predictive Transcriptomics. Stepien DM, Marini S, Hwang C, Pagani CA, Sorkin M, Visser ND, Huber AK, Vasquez K, Li J, Hatsell S, Economides A. Plastic and Reconstructive Surgery—Global Open 2020

- Post-Traumatic Limb Immobilization Alters Mesenchymal Stem Cell Fate. Patel N, Huber AK, Pagani C, Marini S, Hwang C, Loder S, Visser N, Greenstein JA, Vasquez K, Li J, Mishina Y. Plastic and Reconstructive Surgery–Global Open 2020
- 6. Nerve Growth Factor Derives From Pericytes And Smooth Muscle Cells After Extremity Trauma. Hwang C, **Marini S**, Huber AK, Lee S, Stepien DM, Kubiak CA, Meyers C, Sorkin M, Pagani CA, Rehse T, Visser ND. *Plastic and Reconstructive Surgery–Global Open 2020*
- Differing impacts of global and regional responses on SARS-CoV-2 transmission cluster dynamics. Rife Magalis B, Marini S, Salemi M, Prosperi M. COVID-19 Dynamics & Evolution 2020
- 8. Estimating cancer stemness with single-cell RNA sequencing. **Marini S**, Brooks M, Wicha M, Li J. *Keystone Symposia Conference (L1: Single Cell Biology) 2019*
- Diverse mesenchymal stem cell populations contribute to VEGFA expression in post-traumatic heterotopic ossification. Pagani C, Hwang C, Marini S, Stepien DM, Sorkin M, Loder S, Visser ND, Vasquez K, Garada MA, James AW, Mishina Y, Agarwal S, Li J, Levi B. American Society for Bone and Mineral Research Annual Meeting (ASMBR) 2019
- Gene-gene interaction module identification in single-cell RNA sequencing. Marini S,
   Vella D, Nazzicari N, Bellazzi R. International Conference on Complex Networks and Their Applications (Complex Networks) 2018
- 11. Gene interaction discovery in myelodysplastic syndromes. **Marini S**, Vitali F, Demartini A, Bellazzi R. *European Conference of Human Genetics (ESHG) 2018*
- 12. Data Fusion for cleavage target prediction. **Marini S**, Demartini A, Vitali F, Bellazzi R, Akutsu T. *Bioinformatics Italian Society National Congress (BITS) 2016*
- A continuous time, multivariate model to simulate Type 2 Diabetes patients trajectories.
   Marini S, Dagliati A, Bellazzi R. American Medical Informatics Association joint Summits on Translational Science (AMIA) 2016
- 14. Predicting Microvascular Complications from Type 2 Diabetes Retrospective Data. Sacchi L, Colombo C, Dagliati D, **Marini S**, Cerra C, Chiovato L, Bellazzi R. *Annual Diabetes Technology Meetings (DTM) 2014*
- 15. A multivariate data-driven model to investigate the arising of complications in T2D patients. Marini S, Malavolti M, Dagliati A, Bellazzi R. Annual Diabetes Technology Meeting (DTM) 2014
- 16. PaPI: the Pseudo Amino acid variant Predictor. **Marini S**, Limongelli I, Bellazzi R. *Bioinformatics Italian Society National Congress (BITS) 2014*
- 17. A novel algorithm to predict the deleteriousness of genomic coding variants Limongelli I, **Marini S**, Bellazzi R. NGS-ISCB 2014
- 18. Dynamic Bayesian Networks to simulate type 1 diabetes patients cohorts. Barbarini N, Bellazzi R, Cobelli C, Di Camillo B, Manfrini F, Malovini A, **Marini S**, Sambo F. Trifoglio E. *Economics, Modelling and Diabetes: Mount Hood Challenge 2014*
- 19. PaPI: using pseudo amino acid composition to predict deleterious coding variants. Limongelli I, **Marini S**, Bellazzi R. *Italian Bioengineering Group National Congress* (GNB) 2014

# **Book Chapters**

 Precision oncology: a data similarity challenge. Zambelli A, Demartini A, Pala D, Vitali F, Marini S, Bellazzi R. In: E-Health e Medicina Digitale, Quaglini S, Cesarelli M, Giacomini M, Pinciroli F eds, *Patron eds 2017*

## **Preprints**

- Optimizing viral genome subsampling by genetic diversity and temporal distribution (TARDiS) for Phylogenetics. Marini S, Mavian C, Riva A, Salemi M, Magalis BR. bioRxiv 2021
- 2. DYNAMITE: a phylogenetic tool for identification of dynamic transmission epicenters. Magalis BR, **Marini S**, Salemi M, Prosperi M. *bioRxiv 2021*
- 3. Regaining perspective on SARS-CoV-2 molecular tracing and its implications. Mavian C, **Marini S**, Manes C, Capua I, Prosperi M, Salemi M. *medRxiv 2020*

# Awards and Fellowships

02/2018	Elsevier Outstanding contribution in reviewing
11/2015	Japanese Society for the Promotion of Science Postdoctoral Fellowship
06/2015	Elsevier Outstanding contribution in reviewing
10/2011	Bioengineering Division Graduate Student Research Award, 1st ranked
03/2010	The Hong University of Science and Technology Overseas Research Award

## **Invited Talks and Lectures (extramural)**

07/2020 Single-cell transcriptomics: General principles, databases and bioinformatic tools. Transversal Course on Big Data (postgraduate), University of Pavia

07/2020 Multi-sample, multi-condition analysis in scRNAseq data sets. ISMB 2020, BioinfoCore Workshop

06/2019 Enhancing data analysis by leveraging prior biomedical knowledge. Department of Epidemiology, University of Florida, Gainesville, FL, USA

06/2018 Data exploration of single-cell landscapes. Center for Health Technologies, Pavia, Italy

10/2017 Joint data integration for precision oncology. UFHCC Topics in Cancer seminar series, University of Florida, Gainsville, FL, USA

07/2017 miRNA Bioinformatics, sequence analysis and statistical processes. Training school "Omics technologies and bioinformatics application in ME/CFS research", University of Pavia, Pavia, Italy

01/2017 Investigating epileptogenesis with data fusion. University of Michigan, Ann Arbor, USA

09/2016 Mining heterogeneous data sources to enhance association studies. University of Arizona, Tucson, USA

06/2016 Leveraging on public databases for novel peptidase target discovery, University of Pavia, Pavia, Italy

05/2011 Motif search, sequence alignment and Support Vector Regression for Dscam protein self- and hetero-binding affinity prediction. Institute of Biophysics, the Chinese Academy of Science, Beijing, China

## **Funding**

### **Current Research Support**

07/2021-07/2022 Consortium for Medical Marijuana Clinical Outcome Research

Title: CBDinduced biomarkers of inflammation reduction in people living with HIV at the single cell level; Role: Contact PI

### Completed Research Support

12/2018-12/2020 University of Michigan, Mcubed Program (mini-cube).

Title: Mapping diabetic foot ulcers at the single-cell level; Role: MPI

11/2015-11/2016 Kyoto University

Japanese Society for the Promotion of Science funding; Role: Postdoctoral fellow

# **Teaching and Supervising Experiences**

# University of Florida, USA

01/2020-present Supervising 2 postdocs, 1 PhD student, 1 OPS

01/2021-04/2021 Instructor: Topics in Precision Medicine and Public Health Informatics

(postgraduate)

05/2020-08/2020 Instructor of record: Computational Epidemiology (postgraduate)

## University of Michigan, USA

08/2017-12/2019 Supervised 1 postdoc, 2 postgraduates and 1 undergraduate students

#### Kyoto University, Japan

06/2016-09/2016 Supervised 1 undergraduate student

## University of Pavia, Italy

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12/2018	Lecturer: Introduction to Single cell RNA-seq data analysis (postgraduate)
09/2013-09/2015	Instructor of record: Medical Informatics
09/2013-09/2015	Instructor of record: Automatic Learning in Medicine

01/2013-11/2015 Supervised 3 postgraduate and 2 undergraduate students 12/2016-07/2017 Supervised 4 postgraduate and 3 undergraduate students

#### The Hong Kong University of Technology, China

01/2010-06/2010 Teaching assistant: Introduction to Bioengineering

#### **Service to Profession**

## Artificial Intelligence Advisor

12/2016-present enGenome srl, Pavia, Italy

#### Journal Reviewer

Bioinformatics, Plos One, Journal of Biomedical Informatics, Computers in Biology and Medicine, Briefings in Bioinformatics, IEEE/ACM Transactions on Computational Biology and Bioinformatics, IEEE Journal of Biomedical and Health Informatics, Complex and intelligent Systems, Algorithms, Nature Scientific Reports, Molecules, Frontiers in Medicine

## Conference Reviewer

AMIA joint Summits on TranslationalScience, IEEE International Conference on Healthcare Informatics (ICHC)

### Conference Program Committee Member

Artificial Intelligence in Medicine (AIME), IEEE International Symposium on Computer-Based Medical Systems (CBMS), IEEE ICTS4eHealth, ACM International Conference on Information and Knowledge Management (ACM-CIKM), ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB)

## **Memberships**

02/2021-present	Miami Scientific Italian Community
09/2020-present	Community Task Force, University of Florida Dept. of Epidemiology
07/2020-present	Models of Infectious Disease Agent Study (MIDAS) research network
06/2020-present	The N95DECON Consortium
05/2020-present	Awards committee, University of Florida Dept. of Epidemiology

#### **Non-Academic Work**

09/2013-06/2014 High school math teacher, EU program to fight against school dropout. Centro Servizi Formazione, Pavia, Italy

11/2007-06/2008 University tutor. Private one-to-one tutoring of undergraduate and graduate students. CESD, Pavia, Italy

#### Languages

	(Reading)	(Speaking)
Italian	Native speaker	Native speaker
English	Fluent	Fluent

#### Volunteering and community outreach

Fluent

#### Co-founder

Spanish

12/2020-present Created COMINTART, the Italian YouTube channel to discuss and disseminate AI and Machine Learning. The objective is to create a community to discuss

Fluent

novelties and challenges related to cutting edge AI technology in layman terms, for an Italian audience. Weekly videos. 13,000+ visualizations.

## **Translator**

06/2020 Revised the Italian translation of the N95decon documents. N95decon is a scientific consortium for data-driven study of N95 filtering facepiece respirator decontamination.

### Introducing machine learning in high school

03/2013-04/2017 Introduction to data science and artificial intelligence. Voghera, Italy 01/2013-03/2013 Introduction to data science and artificial intelligence. Pavia, Italy.

# Software developer

06/2014 VSO Poverty Alleviation, remote services. Development of a software to help manage dairy cooperatives. DCPUK, Bangladesh.

#### Co-founder

06/2007-12/2013 OMP, non-profit publishing house, the first copyleft (Creative Commons)

publishing house in Italy.

Editor in Chief

08/2007-08/2008 Kronstadt, student-based local news magazine, Pavia, Italy. Monthly

issued, city audience (2000 copies).

### Front desk volunteer

01/2006-08/2008 City social services of Pavia, Italy. Helping immigrants to deal with local

bureaucracy and CV writing.