

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name Claudia Coronello
Address Fondazione Ri.MED Advanced Data Analysis group Corso Calatafimi 414 Palermo, Italy
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Nationality [REDACTED]
Date of Birth [REDACTED]
Gender [REDACTED]

WORK EXPERIENCE

- Dates (from - to) 01/02/2018 – Present
- Name and address of the employer Fondazione Ri.MED, via Bandiera 11, 90133 Palermo, Italy
 - Type of business or sector R&D
 - Occupation or position held Principal Investigator in Advanced Data Analysis (01/01/2022 – Present)
Senior Scientist (01/02/18 – 31/12/2021)
 - Main activities and responsibilities Head of the Advanced Data Analysis group
Coordinating research activities focused on (i) development of bioinformatics tools, (ii) microRNA interaction networks analysis, (iii) transcriptomics high throughput data analysis, (iv) NGS platform exploitation
- Dates (from - to) 25/11/2009 – 31/12/2017
- Name and address of the employer Fondazione Ri.MED, via Bandiera 11, 90133 Palermo, Italy
 - Type of business or sector R&D
 - Occupation or position held Ri.MED postdoc fellow
 - Main activities and responsibilities Research activities focused on (i) development of bioinformatics tools, (ii) microRNA interaction networks analysis, (iii) transcriptomics high throughput data analysis
- Dates (from - to) 01/01/2009 – 24/11/2009
- Name and address of the employer ISMETT (Istituto Mediterraneo per I Trapianti e Terapie ad Alta Specializzazione, Palermo, Italy)
 - Type of business or sector
 - Occupation or position held ISMETT post-lauream fellowship
 - Main activities and responsibilities Research activities focused on development of bioinformatics tools
- Dates (from - to) 01/02/2005 – 31/12/2005
- Name and address of the employer Observatory of Complex Systems, Department of Physics, University of Palermo, Italy
 - Type of business or sector
 - Occupation or position held UniPA post-lauream fellowship
 - Main activities and responsibilities Research activities focused on Econophysics topics

- Dates (from - to) 05/05/2003 – 31/01/2005
- Name and address of the employer Istituto Superiore di Formazione Interdisciplinare (ISUFI), Lecce, Italy; Fellowship funded by TeSCHeT Project (Technology System for Cultural Heritage and Tourism), PON Ricerca 2000/2006
- Type of business or sector UniLE post-lauream fellowship
- Occupation or position held Fellowship funded by the TeSCHeT Project (Technology System for Cultural Heritage and Tourism), PON Ricerca 2000/2006
- Main activities and responsibilities Training on Management, Java programming

EDUCATION AND TRAINING

- Dates (from - to) 01-01-2006 – 31/12/2008
- Name and type of organisation providing education and training Department of Physics, University of Palermo, Italy
- Principal subjects/occupational skills covered
- Title of qualification awarded PhD in Applied Physics
- Dates (from - to) 31/09/2002
- Name and type of organisation providing education and training Department of Physics, University of Palermo, Italy
- Principal subjects/occupational skills covered
- Title of qualification awarded M.Sc. in Physics, final mark 110/110 cum laude

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

Italian
ENGLISH

SCIENTIFIC SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Communication skills ▪ Good communication skills as “interpreter” between biology and statistics languages gained by collaborating with both the figures in several interdisciplinary projects.

- Strong presentation and demonstrating skills
- Friendly and open minded; committed to client/collaborators satisfaction

Job-related skills ▪ Biological big data management and analysis gained in research activity with omic and clinical data.

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

Head of a group composed by other four senior members and ten junior members (three junior scientists, five PhD students and two tutoree)

FUNDINGS

From 2020 to 2023, she served as Local Unit Coordinator for the OBIND project (ERDF Operational Programme 2014–2020, Call 1.1.5), with funding of €540,000 awarded to the Ri.MED Foundation. From 2022 to 2025 she served as Principal Investigator of two projects, SMART and SunFOX funded by the National Center for Gene Therapy and RNA-Based Drugs under Investment 1.4 of the European Union's National Recovery and Resilience Plan (PNRR), with a total grant of €2,035,705.61 awarded to the Ri.MED Foundation. Since January 2025, and until July 2026, she has been serving as Principal Investigator of the Castor&Pollux project, supported by a €1,350,000 grant awarded to

the Ri.MED Foundation under the Politecnico di Torino Cascade Funding Call within the D34Health initiative (Digital Driven Diagnostics, Prognostics and Therapeutics for Sustainable Healthcare), PNC 0000001, Spoke 4, National Complementary Health Plan. Through this project, the laboratory has been strengthened with new sequencing platforms and a high-performance computing server for computational analyses.

PUBLICATION INDEXES

Scopus

Number of total publications in peer-review journals: 48

Total number of citations: 1051

H index: 19

10 MOST RELEVANT PUBLICATIONS

1. Sciaraffa N, Gagliano A, Augugliaro L, **CORONNELLO C** (2025). Optimization of clustering parameters for single-cell RNA analysis using intrinsic goodness metrics. *Frontiers in Bioinformatics* 5, 1562410, doi:10.3389/fbinf.2025.1562410
2. **CORONNELLO C.**, Benos PV (2013). ComiR: combinatorial microRNA target prediction tool. *NUCLEIC ACIDS RESEARCH*, ISSN: 1362-4962, doi: 10.1093/nar/gkt379
3. Tumminello M, **CORONNELLO C**, Lillo F, Micciche S, Mantegna RS (2007). Spanning trees and bootstrap reliability estimation in correlation-based networks. *International Journal of Bifurcation and Chaos* 17 (07), 2319-2329. doi.org/10.1142/S0218127407018415
4. **CORONNELLO C.**, Hartmaier R, Arora A, Huleihel L, Pandit KV, Bais AS, Butterworth M, Kaminski N, Stormo GD, Oesterreich S, Benos PV (2012). Novel Modeling of Combinatorial miRNA Targeting Identifies SNP with Potential Role in Bone Density. *PLOS COMPUTATIONAL BIOLOGY*, 8(12): e1002830 doi: 10.1371/journal.pcbi.1002830
5. Arancio W, **CORONNELLO C** (2021) Repetitive sequences in aging, *Aging (Albany NY)* 13 (8), 10816, doi: 10.18632/aging.203020
6. **CORONNELLO C**, Francipane MG (2021) Moving Towards Induced Pluripotent Stem Cell-based Therapies with Artificial Intelligence and Machine Learning, *Stem cell reviews and reports*, 1-11, doi: 10.1007/s12015-021-10302-y
7. Perconti G, Rubino P, Contino F, Bivona S, Bertolazzi G, Tumminello M, Feo S, Giallongo A, **CORONNELLO C** (2019). RIP-Chip analysis supports different roles for AGO2 and GW182 proteins in recruiting and processing microRNA targets, *BMC Bioinformatics* 20 (4) 1-13. doi: 10.1186/s12859-019-2683-y
8. Bertolazzi G, Cipollina C, Benos PV, Tumminello M, **CORONNELLO C** (2020) miR-1207-5p can contribute to dysregulation of inflammatory response in COVID-19 via targeting SARS-CoV-2 RNA, *Frontiers in Cellular and Infection Microbiology* 673, doi: 10.3389/fcimb.2020.586592
9. Tumminello M, Bertolazzi G, Sottile G, Sciaraffa N, Arancio W, **CORONNELLO C** (2022) A multivariate statistical test for differential expression analysis, *Scientific Reports* 12 (1) 1-10, doi: 10.1038/s41598-022-12246-w
10. Sottile G, Augugliaro L, Vinciotti V, Arancio W, **CORONNELLO C**, (2025) Sparse inference of the human haematopoietic system from heterogeneous and partially observed genomic data, *Journal of the Royal Statistical Society Series C: Applied Statistics* 74 (1) 204-228. doi: 10.1093/jrssc/qlae052

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Palermo, 26/06/2026

Signature