



PERSONAL INFORMATION

Name **CARLA PIAZZA**
Address **UNIVERSITÀ DEGLI STUDI DI UDINE
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Nationality Italian
Date of Birth 09/04/1974
Gender female

WORK EXPERIENCE

- Dates (from - to) December 2021 - today
- Name and address of the employer Università degli Studi di Udine – Department of Mathematics, Informatics, and Physics
 - Sector
 - Position held **Full professor – INFORMATICS (INF/01)**

- Dates (from - to) November 2005 – November 2021
- Name and address of the employer Università degli Studi di Udine - Department of Mathematics, Informatics, and Physics
 - Sector
 - Position held **Associate professor – INFORMATICS (INF/01)**

- Dates (from - to) January 2005 – October 2005
- Name and address of the employer Università degli Studi di Udine - Department of Mathematics, Informatics, and Physics
 - Sector
 - Position held **Researcher – INFORMATICS (INF/01)**

EDUCATION AND TRAINING

- Dates (from - to) 2002-2004
- Name and type of organisation providing education and training Università degli Studi di Udine
Università Ca' Foscari di Venezia
New York University
- Principal subjects/occupational skills covered Research in Computer Science
- Title of qualification awarded **Post Doc Grants**
- Dates (from - to) 1998 – 2002
- Name and type of organisation providing education and training Università degli Studi di Udine
- Principal subjects/occupational skills covered Research Thesis on Computing in Non-Standard Set Theories
- Title of qualification awarded **Doctorate in Computer Science**
- Dates (from - to) 1992 – 1997
- Name and type of organisation providing education and training Università degli Studi di Parma
- Principal subjects/occupational skills covered Research Thesis on Set-Constraint Languages
- Title of qualification awarded **Master in Mathematics (cum laude)**

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

ITALIAN
ENGLISH

SCIENTIFIC SKILLS
AND COMPETENCES

- Research interests (5 Key words): Systems Biology, Hybrid Systems, Formal Verification, Information Flow Security, Quantum Computing.
- Author of 98 publication on Scientific Journals and Conferences indexed on Scopus.
- Lecturer of more than 40 academic courses or modules since 2005 (i.e., Algorithms and Data Structures, Computational Complexity, Quantum computing).
- Organization and Communication at national and international congresses (more than 20 communications).
- Supervisor of more than 20 university theses (three-year, specialist and master's); guiding teacher and co-rapporteur of 4 doctoral theses.

RELEVANT ROLES AND
COMPETENCES

- Coordinator of the Bachelor and Master degrees in Computer Science Area at the Università degli Studi di Udine (November 2022-today).
- Coordinator of the research group on Computational Biology and Bioinformatics at the Università degli Studi di Udine.
- Coordinator of 3 research projects as principal investigator or local principal investigator.
 - o 2022-2024: Noninterference and Reversibility Analysis in Private Blockchains (NiRvAna). Funding body: MIUR –PRIN. Role: Local principal investigator;
 - o 2017-2020 Efforts in the uNderstanding of Complex InterActing SystEms (ENCASE). Funding body: Università degli Studi di Udine. Role: Principal investigator;
 - o 2015 Algoritmica per il model checking e la sintesi di sistemi safety-critical. Funding Body: INdAM Istituto Nazionale di Alta Matematica. Role: Principali investigator.

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 98
- TOTAL NUMBER OF CITATIONS: 1060
- H-INDEX: 19

PUBLICATIONS IN 2018-2022

1. Casagrande A, Gentilini R, Piazza C, Policriti A. (2022). Hybrid automata in systems biology. In *Systems Biology Modelling and Analysis: Formal Bioinformatics Methods and Tools*, 305-338.
2. Piazza C, Romanello R. (2022). Mirrors and Memory in Quantum Automata. *Proceedings of QEST2022*, LNCS 13479, 359-380.
3. Della Giustina D, Piazza C, Riccardi B, Romanello R. (2022). Directed Graph Encoding in Quantum Computing Supporting Edge-Failures. *Proceedings of RC2022*, LNCS 13354, 75-92.
4. Ressi D, Romanello R, Rossi S, Piazza C. (2022). Neural Networks Reduction via Lumping. *Proceedings of AlxIA2022*. LNCS 13796, 75-90.
5. Casagrande A, Gentilini R, Piazza C, Policriti A. (2022). Hybrid Automata in Systems Biology. Chapter in *Systems Biology Modelling and Analysis: Formal Bioinformatics and Tools*, 305-337. Wiley.
6. Rossi N, Colautti A, Iacumin L, Piazza C. (2022). WGA-LP: a pipeline for whole genome assembly of contaminated reads. *Bioinformatics*, 38(3), 846–848.
7. Casagrande A, Dang T, Dorigo L, Dreossi T, Piazza C, Pippia E. (2022) Parameter synthesis of polynomial dynamical systems. *Information and Computation*, 289(A), 104941.
8. Pellizzari L, Rossi N, Verardo M, Spizzo R, Piazza C, Puglisi F, Gerratana L. (2021). Feasibility of an automated data solution for Binary Alignment Map (BAM) files generated through next generation sequencing (NGS) of circulating tumor DNA (ctDNA). *Annals of Oncology*, 32 (S5), S1219.
9. Marin A, Piazza C, Rossi S. (2021). D_PSNi: Delimited persistent stochastic non-interference. *Theoretical Computer Science*, 884, 116-135.
10. Marin A, Piazza C, Rossi S. (2021). Proportional lumpability and proportional bisimilarity. *Acta Informatica*, 59(2-3), 211-244.
11. Piazza C, Rossi S. (2021). Reasoning About Proportional Lumpability. *Proceedings of QEST2021*, LNCS 12846, 372-390.
12. Hillston J, Marin A, Piazza C, Rossi S. (2021). Persistent Stochastic Non-Interference. *Fundamenta Informaticae*, 181(1), 1-35.
13. Dang T, Dreossi T, Fanchon E, Maler O, Piazza C, Rocca A. (2019). Set-Based Analysis for Biological Modeling. Chapter in *Automated Reasoning for Systems Biology and Medicine*, Springer COBO 30, 157-189.
14. Hillston J, Piazza C, Marin A, Rossi S. (2019). Delimited Persistent Stochastic Non-Interference. *Proceedings of VALUETOOLS2019*, ACM, 135-142.
15. Marin A, Piazza C, Rossi S. (2019). Proportional Lumpability. *Proceedings of FORMATS2019*, LNCS 11750, 265-281.
16. Marin A, Piazza C, Rossi S. (2019). A Process Algebra for (Delimited) Persistent Stochastic on-interference. *Proceedings of QEST2019*, LNCS 11785, 222-238.
17. Hillston J, Piazza C, Rossi S. (2018). Persistent Stochastic Non-Interference. *Proceedings of EXPRESS/SOS 2018*, EPTCS 276, 53-68.
18. Anticoli L, Piazza C, Taglialegne L, Zuliani P. (2018). Entangle: a translation framework from Quipper to Quantum Markov Chains. *Proceedings of InfQ2017*, CCIS 825, 113-126.
19. Hillston J, Marin A, Piazza C, Rossi S. (2018). Information Flow Security for Stochastic Processes. *Proceedings of EPEW2018*, LNCS 11178, 142-156.
20. Alzetta G, Marin A, Piazza C, Rossi S. (2018). Lumping-based equivalences in Markovian automata: Algorithms and applications to product-form analyses. *Information and Computation*, 260, 99-125.

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

Udine, 19.03.2023

Signature

