

Education

- 2020 -** **Università degli Studi di Camerino**
PhD (with scholarship) in Computer Science
Scholarship ended in February 2024 - Currently preparing the final defence
- 2018 - 2020** **Università degli Studi di Camerino**
Master Degree in Computer Science (LM-18)
110/110 cum laude
- 2014 - 2018** **Università degli Studi di Camerino**
Bachelor Degree in Computer Science (L-31)
110/110 cum laude

Publications

Marchei, D. and Merelli, E. (2022). RNA secondary structure factorization in prime tangles. *BMC bioinformatics*, 23(6):1–18.

Francis A., Marchei D., Steel M. (2023). Phylogenetic network classes through the lens of expanding covers. *Journal of Mathematical Biology* 88.5 (2024).

Marchei D., Merelli E., Francis A. (2024). Factorizing the Brauer Monoid in polynomial time. (under review)

Conferences

- Poster** Workshop TDA Topological Analysis of RNA Folding Space
in Rome 2022
- Speaker** CIBB 2021 RNA secondary structure factorization in prime
tangles

Academic positions

- Tutor** Data Structures and Algorithms 2023/2024
(Università degli Studi di Camerino) 2022/2023
2020/2021