








## Anna Stefano NARIVELOMANANA

 Born in 7 April 1998, Ambohidratrimo, Antananarivo, Madagascar  
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## Education

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|-------------|--|
| 2022 – 2023 | <b>Structured Master, Fundamental Science Stream</b><br>African Institute of Mathematical Science Cameroon.            |
| 2020 – 2022 | <b>Master 1, in Mathematical Education</b><br>Ecole Normale Supérieure, University of Antananarivo, Madagascar.        |
| 2016 – 2020 | <b>Bachelor degree, in Mathematical Education</b><br>Ecole Normale Supérieure, University of Antananarivo, Madagascar. |
| 2014 – 2015 | <b>Baccalauréat, série C</b><br>Lycée Joseph Ravoahangy Andrianavalona Antananarivo, Madagascar.                       |

## Internships

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|---------------------|---|-----------------|
| Mar 2024 – Feb 2025 | <b>Research Internship on Multivariate-based Post-Quantum Cryptography Implementation</b><br>Max Planck Institute for Security and Privacy, Bochum, Germany |                 |
| Jan.-Feb. 2020      | <b>Mathematics Teaching Internship</b><br>CEG 67Ha Betsimitatatra.  | Course of study |





## Conference

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| 19 Feb. 2025 | <b>1st Microarchitecture Security Conference</b><br>Ruhr University, Bochum, Germany |
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## Schools

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| Jun 2024 | <b>Summer School on Real-World Crypto and Privacy 2024</b><br>Vodice, Croatia        | MPI-SP       |
| Dec 2023 | <b>Research School on Post-Quantum Cryptography</b><br>Pondicherry University, India | CIMPA School |

## Project and work

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|------|--|------------------|
| 2023 | <b>Research on advanced stream cipher cryptography</b><br>Supervised by Dr. Giulio Codogni, University of Roma Tor Vergata.  | AIMS Cameroon    |
| 2023 | <b>Personal website</b> <br>An portfolio written in html, JavaScript and Bootstrap  | Personal project |
| 2023 | <b>Berlekamp-Massey Algorithm</b> <br>An implementation of the Berlekamp-Massey Algorithm written in Python3 using Sympy.         | Personal project |
| 2023 | <b>SPN Code</b> <br>Encryption and decryption with Substitution Permutation Network written in Python3                            | Personal project |
| 2023 | <b>RSA cryptosystem</b> <br>A graphical interface for the RSA cryptosystem (encryption and decryption) made with Python3/Tkinter. | Personal project |

## Extra training

- Sept-Oct 2023 **Cybersecurity bootcamp by Women Techsters**  
HashCheck, Zphisher, John The Ripper.
- June 2022 **Initiation to website development at Orange Digital Center Madagascar**  
Html, CSS, MySQL, PHP.

## Skills

- Languages** Malagasy, English, French, German (low intermediate), Python, R,  $\LaTeX$ , SageMath.
- Libraries** Pandas, Numpy, Scipy, Sympy.

## Extracurricular

- June 2022 **Member of a tree data collection team in a forest**  
Mantadia Park, Andasibe, Madagascar
- May 2022 **Sharing session about algorithm and initiation to Python programming**  
Y-Tech club at YMCA Madagascar
- 2023 **Leader of give-back team which mentors children in S.T.E.M.**  
Save the Children Orphanage, Limbe, Cameroon.
- Clubs **Gender and library clubs member at AIMS Cameroon.**
- Feb.-Jun. 2022 **Y-Tech club member at YMCA Madagascar**

## References

**Dr. Giulio Codogni | Professor of Mathematics and Cryptography**

University of Rome Tor Vergata

Homepage : <https://sites.google.com/view/giuliodogni/home-page?authuser=0>

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**Dr. Fortunat Rajaona Solofomampionona | Research Fellow**

Faculty of Engineering and Physical Sciences University of Surrey

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