

ANAMARIA COSTACHE

Website: <https://anamariacostache.github.io/anamariacostache/>

EDUCATION

- 09/2007–07/2010 International Option Baccalaureate at Lycée International de Ferney-Voltaire, France
- 10/2010–07/2014 Master in Mathematics at the University of Warwick, United Kingdom
Thesis: *Brauer Groups*; Supervisor: Dr. D. Testa
- Since 02/2015 Ph.D. in Cryptography at the University of Bristol, United Kingdom
Thesis: *On the Practicality of Ring-Based Fully Homomorphic Encryption Schemes*; Supervisor: Prof. Nigel P. Smart

PUBLICATIONS

Which Somewhat Homomorphic Encryption Scheme is Best?
– Anamaria Costache and Nigel P. Smart
Published at CT-RSA 2016.

Fixed Point Arithmetic in SHE Schemes – Anamaria Costache and Nigel P. Smart and Srinivas Vivek and Adrian Waller
Published at SAC 2016.

Faster Homomorphic Evaluation of Discrete Fourier Transforms – Anamaria Costache and Nigel P. Smart and Srinivas Vivek
Published at FC 2017.

TEACHING

- 2013 - 2014 Supervisor to a group of first-year undergraduates, at the University of Warwick.
- 2015 - 2016 Teaching Assistant for the modules *Group Theory* and *Communication, Complexity and Number Theory*.
- 2016 - 2017 Teaching Assistant for the modules *Foundations and Proof, Group Theory* and *Communication and Complexity and Number Theory*.

TALKS AND OTHER WORK EXPERIENCE

- 07/2011–08/2011 Internship at the European Council for Nuclear Research.
- Since 02/2015 Subreviewer for PKC 2016 and 2017, IFIP SEC 2017, ES-ORICS 2017 and EuroCrypt 2018. Reviewer for ACM Computing Surveys.
- 03/02/2016 Presented *Which Somewhat Homomorphic Encryption Scheme is Best?* at CT-RSA 2016, in San Francisco.
- 30/11/2016 Invited seminar at Oxford University.
- 18/01/2017 Invited talk at the London Lattice Day at Imperial College.
- 02/2017 Invited talk at the Norwegian University of Science and Technology.
- 04/2017 Presented *Faster Homomorphic Evaluation of Discrete Fourier Transforms* at FC 2017, in Sliema.

VOLUNTEERING

- 08/2014-09/2014 **Warwick in Africa (WiA)**: I was selected to be a WiA teacher during the summer of 2014. I worked as a teacher in two different Ghanaian provinces delivering maths and English lessons in extremely challenging classroom environments. The principle aim was to work with local teachers to stimulate enthusiasm in local maths and STEM curricula.
- 09/2013–present **Athena Swan**: I was an undergraduate representative at the University of Warwick and a postgraduate representative at the University of Bristol. Athena Swan is a charter which aims to recognise and encourage good practice towards diversity in science.
- 11/2015–present **STEM Ambassador**: STEM ambassadors aim to encourage young people to engage with STEM subjects. I have been heavily involved with Digimakers, a series of technology events for children.

LANGUAGE KNOWLEDGE

Romanian	native
French	fluent
English	fluent