

Dr. Diego Sempreboni

Ph.D — FHEA

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Research Interests

- Formal methods for security
- Threat modelling
- Security and Privacy for Socio-Technical Systems

Education

Fall 2016 -
Summer 2020

King's College London, United Kingdom
Ph.D, Computer Science (Cybersecurity)

Dissertation: A formal approach for the analysis of the
security of socio-technical systems
Advisor: Prof. Luca Viganò

Fall 2012 -
Spring 2015

University of Verona, Italy
MSc, Software Engineering and Security
(110/110 cum laude)

Dissertation: Analysis of The Onion Router and attack
scenarios for de-anonymization
Advisor: Dr. Damiano Carra

Fall 2009 -
Spring 2013

University of Verona, Italy
BSc, Computer Science

Positions

May 2020 - ongoing	UCL, United Kingdom Research Associate Project title: CR4B: Cyber Readiness for Boards
July 2020 - February 2021	King's College London, United Kingdom Online module creator Subject: Network Security
January 2020 - August 2020	King's College London, United Kingdom Lecturer Pro Tem in Computer Science Subject: Network Security
November 2019 - April 2020	King's College London, United Kingdom Research Assistant Project title: Cryptoculture 3.0: The creative partnership of Cybersecurity, Psychology and the Arts

Publications

8. **Diego Sempredoni** and Luca Viganò
Privacy, Security and Trust in the Internet of Neurons
10th International Workshop on Socio-Technical Aspects in Security affiliated
with the 25th European Symposium on Research in Computer Security
(ESORICS2020)
7. **Diego Sempredoni** and Luca Viganò
**X-Men: A Mutation-Based Approach for the Formal Analysis of
Security Ceremonies**
5th IEEE European Symposium on Security and Privacy (EuroS&P2020)
6. **Diego Sempredoni**, Giampaolo Bella, Rosario Giustolisi and Luca Viganò
**What Are The Threats? (Charting The Threat Models Of Security
Ceremonies)**
16th International Conference on Security and Cryptography (SECRYPT2019)
5. Giampaolo Bella, Karen Renaud, **Diego Sempredoni** and Luca Viganò
An Investigation into the “Beautification” of Security Ceremonies
16th International Conference on Security and Cryptography (SECRYPT2019)
4. Luca Viganò and **Diego Sempredoni**
Schrödinger’s Man
3rd Re-coding Black Mirror Workshop affiliated with the 12th International

Conference on Data Protection and Artificial Intelligence (CPDP2019)

3. **Diego Sempredoni** and Luca Viganò
Smart Humans: WannaDie?
3rd Re-coding Black Mirror Workshop affiliated with the 12th International Conference on Data Protection and Artificial Intelligence (CPDP2019)
2. Luca Viganò and **Diego Sempredoni**
Gnirut: The Trouble With Being Born Human In An Autonomous World
2nd Re-coding Black Mirror Workshop affiliated with The Web Conference (WWW2018)
1. **Diego Sempredoni** and Luca Viganò
MMM: May I Mind Your Mind
2nd Re-coding Black Mirror Workshop affiliated with The Web Conference (WWW2018)

Teaching

Department of Computer Science, University College London

GTA, Security, 2021

Department of Informatics, King's College London

Lecturer Pro Tempore, Network Security,	2020
GTA, Computer Systems,	2017
GTA, Programming Practice,	2016
GTA, Programming Practice and Applications,	2016,2017,2018
GTA, Software Engineering Group Project,	2016
GTA, Software Engineering of Internet Applications,	2017,2018
GTA, Software Architecture And Design,	2018
GTA, Software Measurement and Testing,	2018
GTA, Databases, data warehousing and information retrieval,	2018,2019
GTA, Human-Computer Interaction,	2018
GTA, Cryptography and Information Security,	2016,2017,2018,2019
GTA, Computer Forensics & Cybercrime,	2019,2020
GTA, Network Security,	2017,2018,2019

My duties as Lecturer pro tempore included the design of the entire material course, the assessment of the students designing two exam papers and courseworks, holding weekly office hours with students and answering online questions on the online e-learning platform. Regarding my GTA positions, I supported students during lab activities and tutorials (from small groups to large groups of 20 to 300 students).

Department of Informatics, University of Verona

TA, Software Engineering for Informatics,	2015
TA, Java Programming I for Bioinformatics,	2013,2014

Awards, Grants and Fellowships

The Professor Sir Richard Trainor Scholarships

King's College London, 2016-2019

Fellow of the Higher Education Academy (FHEA)

King's College London, July 2020

Associate Fellow of the Higher Education Academy (AFHEA)

King's College London, June 2017

Nominated for Teaching Excellence Awards for Student Support

King's College London 2018-2019

Nominated for the Outstanding Teaching Awards in the Department of Informatics at King's

King's College London 2019

Participation to conferences/ talks

10th International Workshop on Socio-Technical Aspects in Security
(STAST2020)
Guildford, United Kingdom

5th IEEE European Symposium on Security and Privacy
(EuroS&P2020)
Genoa, Italy

16th International Conference on Security and Cryptography
(SECRYPT2019),
Prague, Czech Republic

3rd Re-coding Black Mirror Workshop affiliated with the
12th International Conference on Data Protection and
Artificial Intelligence
(CPDP2019),
Brussels, Belgium

BlackHat Europe 2019,
London, United Kingdom

BlackHat Europe 2017,
London, United Kingdom

BlackHat Europe 2016,
London, United Kingdom

28th IEEE Computer Security Foundations Symposium
(CSF 2015),
Verona, Italy

Anonymity and The Onion Router (TOR)
Lecture for students attending the Network Security course at
University of Verona, Italy (2017,2018)

Internships, Training and Summer School

28/02/19 - 01/03/19	2nd Spring School on Hardware Security (RISE) Belfast, Northern Ireland
31/07/18 - 11/08/18	Marktoberdorf Summer School on Engineering Secure and Dependable Software Systems. Munich, Germany
28/08/17 - 02/09/17	International School on Foundations of Security Analysis and Design (FOSAD). Bertinoro, Italy
27/07/14 - 01/08/14	5th International Summer School on Information Security and Protection (ISSISP). Verona, Italy

Service

Shadow PC Member:

42nd IEEE Symposium on Security and Privacy
(S&P 2021)

PC Member:

10th International Workshop on Socio-Technical Aspects in Security
(STAST 2020)
Re-Coding Black Mirror Workshop 2019

Sub-reviewer:

24th European Symposium on Research in Computer Security
(ESORICS2019)

King's College London

PhD Student Representative in the Staff-Student Liaison Committee (SSLC)
2019 - 2020

King's College London

PhD Student Representative in the Informatics Diversity & Inclusion Committee (DInC)
2019 - 2020

King's College London

Seminar Organiser for the Software Modelling and Applied Logic (SMAL) Research Group
2017

Computer skills

OS	Mac OS, Linux (CentOS, Ubuntu, Kali), Windows
Coding	Java, Python, PHP, Objective-C, C++, XML
Database	MySQL, PostgreSQL, SQLite, Microsoft Access
Model Checker	AVANTSSAR, Tamarin Prover
Design&IDE	Netbeans, Eclipse, XCode, Adobe suite
Support	LaTex, Microsoft Office