Luca Viganò

Professor Dr.-Ing.

Curriculum Vitae

Birthplace:	Genoa, Italy
Citizenship:	Italian
Gender:	
Languages:	Native Italian, near-to-native English and German, fluent French, basic Portuguese
Current Position:	Professor
Address:	Department of Informatics
	King's College London
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	London WC2B 4BG
	UK
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1 One-Page Résumé

10/2013 — today	Full Professor at the Department of Informatics, King's College London, UK.
01/2018 — today	Head of the Cybersecurity Group, Dep. of Informatics, King's College London.
08/2022 — today	IES (International, Engagement, Service) Ambassador for King's College London.
08/2020 — today	Vice-Dean (Enterprise & Engagement), Faculty of Natural, Mathematical & Engineering Sciences, King's College London. [This role encompasses: International Affairs, Commercialisation, Impact, Service, London, Culture, Science Gallery London...]
08/2020-07/2022	Global Envoy for King's College London.
08/2017-07/2020	Vice-Dean (External Relations), Faculty of Natural & Mathematical Sciences, King's College London.
11/2014–07/2017	Vice-Dean (International), Faculty of Natural & Mathematical Sciences, King's College London.
02/2017–07/2017	Interim Head of the Department of Informatics, King's College London.

Prof. Dr. Luca Viganò received his Ph.D. in Computer Science from the University of Saarbr¨

Habilitation in Computer Science from the University of Freiburg (DE) in 2003. He held a senior research scientist position in the Information Security Group of ETH Zurich (CH) 01/2003-09/2006, and 10/2006-09/2013 he was Associate Professor at the University of Verona (IT), where he was the head of the Research Group in Information Security.

His research focuses on formal methods and tools for the specification, verification, testing and construction of systems for cybersecurity and privacy. This includes security and cryptographic protocols, web services and web applications, authentication and privacy systems, socio-technical systems and cyber-physical systems. He also works on explainable security.
On these topics, he has taught several classes, tutorials, and industrial courses, and has co-authored more than 130 peer-reviewed publications. He has served as PC-chair and PC-member in over 180 international conferences and workshops, some of which he founded or helped found.
He has supervised 6 PostDocs, 15 Ph.D. students, 70+ MSc students and 150+ BSc students.
He is an excellent and committed teacher, as recognized yearly by his peers and students; for instance, in 2018, he won the "King's College Teaching Excellence Award" for "Education Experience".

He has been the Principal Investigator of 6 international and national projects (for a total of about £17M), and co-I of 10 international and national projects (for a total of about £3.5M).

Five representative publications:

1. Diego Sempreboni, Luca Viganò'. *A Mutation-Based Approach for the Formal Analysis of Security Ceremonies.* Journal of Computer Security 31(4):293–364, 2023.

2. Luca Viganò. *Formal Methods for Socio-technical Security (Formal and Automated Analysis of Security Ceremonies)*, Proceedings of Coordination 2022, Springer, pp. 3–14, 2022.

3. Ruggero Lanotte, Massimo Merro, Andrei Munteanu, Luca Viganò. *A Formal Approach to Physics-based Attacks in Cyber-Physical Systems*, ACM Transactions on Privacy and Security 23(1):1–41, 2020.

4. Luca Viganò and Daniele Magazzeni. *Explainable Security*, Proceedings of HotSpot'20, IEEE CS Press, 2020.

5. Sebastian Mödersheim, Luca Viganò. *Alpha-Beta Privacy*, ACM Transactions on Privacy and Security 22(1):1–35, 2019.

2   Academic Appointments

10/2013 — today   Full Professor in Computer Science at the Department of Informatics, King's College London, UK.

10/2006–09/2013   Associate Professor ("Professore Associato confermato") at the Department of Computer Science of the University of Verona, Italy.

01/2003–09/2006   Senior assistant ("Oberassistent") at the Department of Computer Science of the ETH Zurich, Switzerland.

10/1997–12/2002   Research scientist ("Wissenschaftlicher Assistent, C1") at the Institute for Computer Science of the Albert-Ludwigs-Universität Freiburg, Germany.

03/1994–09/1997   PhD student ("Wissenschaftlicher Mitarbeiter") at the Max-Planck-Institut for Computer Science, Saarbrücken, Germany.

3 Education

2016   King's Futures – Leader Programme. King's College London, UK.

2013   Habilitation to the Position of Full Professor for Computer Science, Italian Ministry for Education, University and Research (MIUR).

03/2004   Qualification aux fonctions de Professeur en Informatique des Universités Françaises. (Habilitation to the Position of University Professor for Computer Science for French Universities).

07/2003   Habilitation and Venia Legendi in Informatik ("Privatdozent"), Albert-Ludwigs-Universität Freiburg, Germany.

Thesis: *Formal Methods for the Analysis of IT-Security.*

09/1997   PhD in computer science, Universität des Saarlandes, Saarbrücken, Germany.

Thesis: *A Framework for Non-Classical Logics.*

Supervisors: Prof. Dr. David Basin and Prof. Dr. Harald Ganzinger.

Mark: Summa cum laude (1.0/1.0).

Winner of the Dr.-Eduard-Martin Prize for the best PhD dissertation at the technical faculty of the Universität des Saarlandes for the academic year 1996/1997.

01/1995   Esame di Stato per l'abilitazione alla professione di Ingegnere Elettronico (State professional qualifying examination in electronic engineering), Università di Genova, Italy.

01/1994   Laurea in ingegneria elettronica (Master of Science in Electronic Engineering), Università di Genova, Italy.

Thesis: *Sintesi ed esecuzione di strategie di prova nella metateoria formale di un dimostratore interattivo* ("Synthesis and execution of proof strategies in the formal metatheory of an interactive theorem prover").

Mark: 110/110 with highest honors ("lode e dignità di stampa").

05/1987   Abitur (High-school diploma) at the Deutsche Schule Genua, Genova, Italy.

Mark 1.0 (60/60).

4   Honors

I list here the main honors that I have received. They are described in more detail in other parts of this CV.

2018	"King's College Teaching Excellence Award" for "Education Experience".
2018	"Teaching Excellence Award of the Faculty of Natural & Mathematical Sciences".
2015	"Outstanding MSc Supervisor Award of the Faculty of Natural & Mathematical Sciences".
2015	"Best Student Paper Award" at ESORICS 2015 for the paper [C56].
2015	"Certification of Appreciation" of the IEEE Computer Society for services rendered.
2006	AVISPA Project shortlisted for the "EU Descartes Prize for Research 2006".
2005	"Premio Pitagora" for the best multimedia event for the popularization of mathematics. (This was awarded for my play "Galois" about the French mathematician Évariste Galois. See also my papers [O4, O3, O2, O1].)
1998	Dr.-Eduard-Martin Prize for the best PhD dissertation at the technical faculty of the Universität des Saarlandes for the academic year 1996/1997.

Moreover, several of my PhD, MSc and UG students have won international, national or university-specific awards for the dissertations and projects that they have carried out under my supervision.

5   Administration, Citizenship and Service

5.1   Didactic and Scientific Appointments and Initiatives

Appointments: Active

6. IES (International, Engagement, Service) Ambassador for King's College London, UK, since August 2020.

5. Member of the Advisory Board of the "Centro sicurezza, rischio e vulnerabilitÃ ", Università di Genova, Italy, since 2022.

4. Vice-Dean (Enterprise & Engagement), Faculty of Natural, Mathematical & Engineering Sciences, King's College London, UK, since August 2020.
   This role encompasses: International Affairs, Commercialisation, Impact, Service, London, Culture, Science Gallery London, etc.

3. Member of the Collegio dei Docenti del Programma di dottorato in "Systems Science", IMT Lucca, Italy, since 2020.

2. Head of the Cybersecurity Group, Department of Informatics, King's College London, UK, since January 2018.
   The Cybersecurity Group (`www.kcl.ac.uk/research/profile/cys`), which comprises 14 permanent academic staff members and their postdocs and PhD students, studies design, modelling, analysis, verification and testing of networks and systems in order to tackle cybersecurity and privacy problems that are important to industry, society and everyone living in a technologically dependent world.
   The Cybersecurity Group is part of the KCL Cybersecurity Centre (`www.kcl.ac.uk/research/profile/cybersecurity-centre`), an EPSRC-NCSC Academic Centre of Excellence in Cyber Security Research (ACE-CSR).

1. Chair of the "Academic Ways of Working" Group, King's College London, UK, since February 2017.

Appointments: Completed

8. Global Envoy for King's College London, UK, August 2020 – July 2022.

7. Vice-Dean (External Relations), Faculty of Natural and Mathematical Sciences, King's College London, UK, August 2017 – July 2020.
   This role encompasses: International Affairs, Commercialisation, Service, London, Culture, Science Gallery London, etc.

6. Interim Head of the Department of Informatics, King's College London, UK, February 1 – July 31, 2017.

5. Vice-Dean (International), Faculty of Natural and Mathematical Sciences, King's College London, UK, November 2014 – July 2017.

4. Chair of the Industrial Advisory Board, Department of Informatics, King's College London, UK, January 2014 – January 2015.

3. Member of the Teaching Staff Council of the PhD Program in Computer Science, Università di Verona, December 2006 – September 2013.

2. Member of the Faculty Council of the Faculty of Mathematical, Physical and Natural Science of the University of Verona, October 2006 – September 2013.

1. Member of the Department Council of the Department of Computer Science of the University of Verona, October 2006 – September 2013.

Elective Appointments: Completed

14. Member of the Steering Committee of UNICA, the Network of Universities from the Capitals of Europe, June 2021 – June 2023.

13. Director of the PhD Program in Computer Science, University of Verona, June 2009 – September 2013.

12. Referee (contact person) for Student Curriculum Counseling of the Faculty of Mathematical, Physical and Natural Science of the University of Verona, March 2007 – September 2013.

11. Member of the Selection Committee of Ph.D. program in Computer Science of the University of Verona, October 2011.

10. Member of "Comitato di Area CIVR 01 – Scienze Matematiche ed Informatiche" for the evaluation of research in mathematics and computer science at the Department of Computer Science of the University of Verona for the academic years 2008/2009 – 2009/2010 – 2010/2011.

9. Member of the Founding Committee of the Master's Program in "Engineering and Computer Science" ("Laurea Magistrale in Ingegneria e scienze informatiche") of the University of Verona, 2009 (the course started in the fall of 2009).

8. Member of the Didactic Committee of the Department of Computer Science of the University of Verona, January 2007 — 2010.

7. Referee (contact person) for the Information Systems of the Faculty of Mathematical, Physical and Natural Science of the University of Verona, March 2007 – September 2009.

6. Member of the Selection Committee of Ph.D. program in Computer Science of the University of Verona, October 2006.

5. Member of the Department Council of the Department of Computer Science of the ETH Zürich, from June 2005 to September 2006.

4. Co-organizer of the Major-Program "Information Security" in the context of the Master Program of the ETH Zürich, 2004.

3. Member of the Faculty Council ("Fakultätsrat") of the Faculty of Applied Sciences of the Albert-Ludwigs-Universität Freiburg, Germany, from 2000 to 2003.

2. Member of the Library Commission of the Faculty of Applied Sciences of the Albert-Ludwigs-Universität Freiburg, Germany, from 1997 to 2002.

1. Reference staff member of the Faculty of Applied Sciences of the Albert-Ludwigs-Universität Freiburg, Germany, for the student exchange program in the context of the Socrates Bilateral Agreement between the Albert-Ludwigs-Universität Freiburg and DIST, Università di Genova (DIST reference staff member: Prof. Dr. Alessandro Armando), 2001–2003.

5.2   Working Groups and Conference Committees

Working Group: Member

1. **IFIP WG 1.7:** Member of the IFIP WG 1.7 "Theoretical Foundations of Security Analysis and Design" since June 2008.

Steering Committee: Chair

1. **FCS:** Chair of the Steering Committee of the FCS (Foundations of Computer Security) Workshop from October 2008 to October 2013.

Steering Committee: Member

5. **CSF:** Member of the Steering Committee of the IEEE Computer Security Foundations Symposium since January 2014.

4. **POST:** Member of the Steering Committee of the ETAPS Conference on Principles of Security and Trust since its inception in 2011 until 2015, and from 2016 until 2018.

3. **TAP:** Member of the Steering Committee of the International Conference on Tests & Proofs, June 2013 – December 2017.

2. **FCS:** Member of the Steering Committee of the FCS (Foundations of Computer Security) Workshop since September 2006.

1. **FTP:** Member of the Steering Committee of the FTP (First-Order Theorem Proving) Workshop, November 2003 – December 2004.

Organizing Committee: Chair

2. **CSF 2015:** General Chair of 28th IEEE Computer Security Foundations Symposium, University of Verona, Italy, June 2015.

1. **CSF 2014:** General Chair of 27th IEEE Computer Security Foundations Symposium, Vienna University of Technology (TU Wien), Austria, July 19-22, 2014.

Organizing Committee: Finance Chair

6. **CSF 2023:** Finance Chair of 36th IEEE Computer Security Foundations Symposium, Dubrovnik, Croatia, July 9-13, 2023.

5. **CSF 2022:** Finance Chair of 35th IEEE Computer Security Foundations Symposium, Haifa, Israel, August 7-10, 2022.

4. **CSF 2021:** Finance Chair of 34th IEEE Computer Security Foundations Symposium, Dubrovnik, Croatia, June 21-25, 2021.

3. **CSF 2020:** Finance Chair of 33rd IEEE Computer Security Foundations Symposium, Boston University, USA, June 22-26, 2020.

2. **CSF 2019:** Finance Chair of 32nd IEEE Computer Security Foundations Symposium, Hoboken, NJ, USA, June 24-27, 2019.

1. **CSF 2018:** Finance Chair of 31st IEEE Computer Security Foundations Symposium, University of Oxford, UK, July 9-12, 2018.

Organizing Committee: Workshop Chair

1. **Euro S&P 2020:** 5th IEEE European Symposium on Security and Privacy, Genova, Italy, September 11–17, 2020.

Program Committee: Chair

17. **STAST 2021:** 11th International Workshop on Socio-Technical Aspects in Security, affiliated with the 25th European Symposium on Research in Computer Security (ESORICS 2021), online workshop, 2021. Co-chair of the Program Committee with Simon Parkin.

16. **STAST 2020:** 10th International Workshop on Socio-Technical Aspects in Security, affiliated with the 25th European Symposium on Research in Computer Security (ESORICS 2020), Guildford, UK, September 2020. Co-chair of the Program Committee with Thomas Groß.

15. **Post 2016:** 5th Conference on Principles of Security and Trust, ETAPS 2016. Co-chair of the Program Committee with Frank Piessens.

14. **HotSpot 2015:** 3rd Workshop on Hot Issues in Security Principles and Trust, affiliated with ETAPS 2015, April 2015, London, UK. Chair of the Program Committee.

13. **SHPCS 2014:** 9th Workshop on Security and High Performance Computing Systems, affiliated with the International Conference on High Performance Computing & Simulation (HPCS 2014), Bologna, Italy, July 21–25, 2014. Co-chair of the Program Committee with Luca Spalazzi.

12. **SHPCS 2013:** 8th Workshop on Security and High Performance Computing Systems (SHPCS 2013), affiliated with the International Conference on High Performance Computing & Simulation (HPCS 2013), Helsinki, Finland, July 1–5, 2013. Co-chair of the Program Committee with Luca Spalazzi.

11. **TAP 2013:** The Seventh International Conference on Tests and Proofs, Budapest, Hungary, June 2013. Co-chair of the Program Committee with Margus Veanes.

10. **SecTest 2012:** The Third International Workshop on Security Testing, affiliated with ICST 2012, Montreal, Canada, April 2012. Co-chair of the Program Committee with Keqin Li and Wissam Mallouli.

9. **SecTest 2011:** The Second International Workshop on Security Testing, affiliated with ICST 2011, Berlin, Germany, March 2011. Co-chair of the Program Committee with Keqin Li and Wissam Mallouli.

8. **ARSPA-WITS 2009:** Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, affiliated with ETAPS 2009, York, UK, March 28–29, 2009. Co-chair of the Program Committee with Pierpaolo Degano.

7. **SECURWARE 2008:** The Second International Conference on Emerging Security Information, Systems and Technologies, Cap Esterel, France, August 25–31, 2008. Co-chair of the Technical Program Committee with Achilles Kameas and Bogdan Ghita.

6. **FCS-ARSPA-WITS 2008:** Workshop on Foundations of Computer Security, Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, affiliated with LICS 2008 and CSF 21, Pittsburgh, PA, USA, June 21–22, 2008. Co-chair of the Program Committee with Lujo Bauer, Jerry den Hartog, and Sandro Etalle.

5. **FCS-ARSPA 2007:** Workshop on Foundations of Computer Security and Automated Reasoning for Security Protocol Analysis, affiliated with LICS'07 and ICALP'07, Wroclaw, Poland, July 8-9, 2007. Co-chair of the Program Committee with Pierpaolo Degano, Ralf Küsters, and Steve Zdancewic.

4. **FCS-ARSPA 2006:** Joint Workshop on Foundations of Computer Security and Automated Reasoning for Security Protocol Analysis, FLoC/Lics Workshop, Seattle, USA, August 15–16, 2006. Co-chair of the Program Committee with Pierpaolo Degano, Ralf Küsters, and Steve Zdancewic.

3. **ARSPA 2005:** ICALP 2005 Workshop on Automated Reasoning for Security Protocols Analysis, Lisbon, Portugal, July 16, 2005. Co-chair of the Program Committee with Pierpaolo Degano.

2. **ARSPA 2004:** IJCAR'04 Workshop on Automated Reasoning for Security Protocols Analysis, Cork, Ireland, July 4, 2004. Co-chair of the Program Committee with Prof. Alessandro Armando.

1. **LD 1998:** the First International Workshop on Labelled Deduction, Albert-Ludwigs-Universität Freiburg, September 7–9, 1998. Co-chair of the Program Committee with David Basin, Marcello D'Agostino, Dov Gabbay, and Seán Matthews.

Program Committee: Member

168. **USENIX Security 2024:** 33rd USENIX Security Symposium, Philadelphia, PA, USA, August 14–16, 2024.

167. **ASIACCS 2024:** 19th ACM ASIA Conference on Computer and Communications Security (ACM ASIACCS 2024), Singapore, July 1–5, 2024.

166. **MetaCom 2023:** IEEE MetaCom 2023 (Security, Privacy and Trust Track), Tianjin, China, November 18-20, 2023.

165. **NSS 2023:** 17th International Conference on Network and System Security, University of Kent in Canterbury, UK, August 14-16, 2023.

164. **USENIX Security 2023:** 32nd USENIX Security Symposium, Anaheim, CA, USA, August 9–11, 2023.

163. **ASIACCS 2023:** 18th ACM ASIA Conference on Computer and Communications Security (ACM ASIACCS 2023), Melbourne, Australia, July 10–14, 2023.

162. **SVCC 2023:** IEEE Silicon Valley Cybersecurity Conference, San Jose, CA, USA, May 17–19, 2023.

161. **ICICS 2022:** 24th International Conference on Information and Communications Security, Nankai University, Tianjin, China, November 18–20, 2022.

160. **Esorics 2022:** 27th European Symposium on Research in Computer Security, Copenhagen, Denmark, September 26–30, 2022.

159. **USENIX Security 2022:** 31st USENIX Security Symposium, Boston, MA, USA, August 10–12, 2022.

158. **ASIACCS 2022:** 17th ACM ASIA Conference on Computer and Communications Security (ACM ASIACCS 2022), Nagasaki, Japan, May 30 – June 3, 2022.

157. **ICICS 2021:** 23rd International Conference on Information and Communications Security, Chongqing, China, November 19–21, 2021.

156. **VSC 2021:** 9th Edition of Track on Validation of Safety critical Collaboration systems in the 30th IEEE WETICE International Conference, online, October 27–29, 2021.

155. **Esorics 2021:** 26th European Symposium on Research in Computer Security, online conference, October 4–8, 2021.

154. **ACM SAC 2021 – Security Track:** Security Track of the 36th ACM/SIGAPP Symposium On Applied Computing, online, March 22–26, 2021.

153. **IEEE Cloud 2020:** 6th International Conference on Information Systems Security and Privacy, Beijing, China, October 19–23, 2020.

152. **Esorics 2020:** 25th European Symposium on Research in Computer Security, Guildford, Surrey, UK, September 14–18, 2020.

151. **HotSpot 2020:** Workshop on Hot topics in the Principles of Security and Trust, affiloated with Euro S&P, Genova, Italy, September 7, 2020.

150. **ICICS 2020:** 22nd International Conference on Information and Communications Security, Copenhagen, Denmark, August 24–27, 2020.

149. **GraMSec 2020:** The Seventh International Workshop on Graphical Models for Security, Co-located with CSF 2020, June 22, 2020.

148. **VSC 2020:** 8th Edition of Track on Validation of Safety critical Collaboration systems in the 29th IEEE WETICE International Conference, Bayonne, France, June 10–12, 2020.

147. **AI4P 2020:** 1st International Workshop on AI for Privacy, affiliated with ECAI 2020, Santiago de Compostela, Spain, June 9, 2020.

146. **DeceptECAI2020:** 1st International Workshop on Deceptive AI, affiliated with ECAI 2020, Santiago de Compostela, Spain, June 8–9, 2020.

145. **WTSC 2020:** 4th Workshop on Trusted Smart Contracts, in association with Financial Cryptography 2020, Kota Kinabalu, Sabah, Malaysia, February 14, 2020.

144. **STAST 2019:** 9th Workshop on Socio-Technical Aspects in Security and Trust, affiliated with the European Symposium on Research in Computer Security (ESORICS 2019), Luxembourg, September 26, 2019.

143. **Esorics 2019:** 24th European Symposium on Research in Computer Security, Luxembourg, September 23–27, 2019.

142. **Tableaux 2019:** 28th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, London, September 3–5, 2019.

141. **SHPCS 2019:** 14th International Workshop on Security and High Performance Computing Systems, Dublin, Ireland, July 15–19, 2019.

140. **IEEE Cloud 2019:** 5th International Conference on Information Systems Security and Privacy, Milan, Italy, July 8–13, 2019.

139. **Euro S&P 2019:** 4th IEEE European Symposium on Security and Privacy, Stockholm, Sweden, June 17–19, 2019.

138. **VSC 2019:** 7th Edition of Track on Validation of Safety critical Collaboration systems in the 28th IEEE WETICE International Conference, Capri, Italy, June 12–14, 2019.

137. **Re-coding Black Mirror 2019:** workshop affiliated with The Web Conference 2019, San Francisco, USA, May 13–14, 2019.

136. **ICISSP 2019:** 5th International Conference on Information Systems Security and Privacy, Prague, Czech Republic, February 23–25, 2019.

135. **WTSC 2019:** 3rd Workshop on Trusted Smart Contracts, in association with Financial Cryptography 2019, St. Kitts Marriott Resort, St. Kitts, February 22, 2019.

134. **Re-coding Black Mirror 2019:** workshop affiliated with CPDP2019, Brussels, Belgium, January 30, 2019.

133. **STAST 2018:** 8th Workshop on Socio-Technical Aspects in Security and Trust, affiliated with the Annual Computer Security Applications Conference (ACSAC 2018), San Juan, Puerto Rico, USA, December 4, 2018.

132. **C&TC 2018:** 8th International Symposium on Secure Virtual Infrastructures – Cloud and Trusted Computing, La Valletta, Malta, October 22–23, 2018.

131. **ATC 2018:** 15th IEEE International Conference on Advanced and Trusted Computing, Track 5 (Trust Models, Management and Standards), Guangzhou, China, October 8–12, 2018.

130. **Esorics 2018:** 23rd European Symposium on Research in Computer Security, Barcelona, Spain, September 3–7, 2018.

129. **SDSG@DSD 2018:** Special session on "System Design for the Smart Grids" at the 21st Euromicro Conference on Digital System, Prague, Czech Republic, August 29–31, 2018.

128. **EICNCL 2018:** International Workshop On External And Internal Calculi For Non-classical Logics, associated with FLoC 2018 and IJCAR 2018, Oxford, UK, July 19, 2018.

127. **SHPCS 2018:** 13th Workshop on Security and High Performance Computing Systems, affiliated with the 16th International Conference on High Performance Computing & Simulation (HPCS 2018), Orléans, France, July 16–20, 2018.

126. **IJCAR 2018:** 9th International Joint Conference on Automated Reasoning, part of FLoC 2018 and IJCAR 2018, Oxford, UK, July 14–17, 2018.

125. **VSC 2018:** 6th Edition of Track on Validation of Safety critical Collaboration systems in the 27th IEEE WETICE International Conference, Paris, France, June 27–29, 2018.

124. **POST 2018:** 7th Conference on Principles of Security and Trust, ETAPS, Thessaloniki, Greece, April 14–21, 2018.

123. **WTSC 2018:** 2nd Workshop on Trusted Smart Contracts, in association with Financial Cryptography 2018, Santa Barbara Beach Resort, USA, March 2, 2018.

122. **ICISSP 2018:** 4th International Conference on Information Systems Security and Privacy, Funchal, Madeira, Portugal, January 22–24, 2018.

121. **C&TC 2017:** 7th International Symposium on Cloud Computing, Trusted Computing and Secure Virtual Infrastructures, Rhodes, Greece, October 23–27, 2017.

120. **Tyrr 2017:** 2017 Tyrrhenian International Workshop on Digital Communications "Towards A Smart And Secure Future Internet", Mondello (Palermo), Italy, September 18–20, 2017.

119. **ESORICS 2017:** 22nd European Symposium on Research in Computer Security, Oslo, Norway, September 11–13, 2017.

118. **DataMod 2017:** 6th International Symposium "From Data to Models and Back (DataMod)", Trento, Italy, September 4–5 September, 2017.

117. **SDSG@DSD 2017:** Special session on "System Design for the Smart Grids" at the 20th Euromicro Conference on Digital System, Vienna, Austria, August 30 – September 1, 2017.

116. **GraMSec 2017:** 4th International Workshop on Graphical Models for Security, affiliated with CSF 2017, Santa Barbara, CA, Usa, August 21, 2017.

115. **CSL 2017:** 26th EACSL Annual Conference on Computer Science Logic, Stockholm, Sweden, August 20–24, 2017.

114. **ATC 2017:** 14th IEEE International Conference on Advanced and Trusted Computing, Track 5 (Trust Models, Management and Standards), held in conjunction with the 2017 Smart World Congress, San Francisco Bay Area, USA, August 4–8, 2017.

113. **VSC 2017:** 5th Edition of Track on Validation of Safety critical Collaboration systems in the 26th IEEE WETICE International Conference, Poznan, Poland, July 21–23, 2017.

112. **TAP 2017:** The 11th International Conference on Tests & Proofs, organised as part of STAF 2017, Marburg, Germany, July 17–21, 2017.

111. **POST 2017:** 6th Conference on Principles of Security and Trust, ETAPS, Uppsala, Sweden, April 23–29, 2017.

110. **WTSC 2017:** 1st Workshop on Trusted Smart Contracts, in association with Financial Cryptography 17, Malta, April 07, 2017.

109. **CPSS 2017:** 3rd ACM Cyber-Physical System Security Workshop, held in conjunction with ACM AsiaCCS'17, Abu Dhabi, UAE, April 2, 2017.

108. **HASE 2017:** 18th International Symposium on High Assurance Systems Engineering, Singapore, January 12–14, 2017.

107. **C&TC 2016:** 6th International Symposium on Cloud Computing, Trusted Computing and Secure Virtual Infrastructures, Rhodes, Greece, October 24–25, 2016.

106. **ESORICS 2016:** 21th European Symposium on Research in Computer Security, Heraklion, Crete, Greece, September 26–30, 2016.

105. **SDSG@DSD 2016:** Special session on "System Design for the Smart Grids" at the 19th Euromicro Conference on Digital System, Limassol, Cyprus, August 31 – September 2, 2016.

104. **CSL 2016:** 25th EACSL Annual Conference on Computer Science Logic, Marseille, France, August 29 – September 1, 2016.

103. **SECRYPT 2016:** 13th International Conference on Security and Cryptography, part of ICE-TE, the 13th International Joint Conference on e-Business and Telecommunications, Lisbon, Portugal, July 26–28, 2016.

102. **ATC 2016:** 13th IEEE International Conference on Advanced and Trusted Computing, Track 5 (Trust Models, Management and Standards), held in conjunction with the 2016 Smart World Congress, Toulouse, France, July 18-21, 2016.

101. **ARQNL 2016:** 2nd Workshop on Automated Reasoning in Quantified Non-Classical Logics (ARQNL), affiliated with IJCAR 2016, Coimbra, Portugal, July 1, 2016.

100. **GraMSec 2016:** 3rd International Workshop on Graphical Models for Security (GraMSec), affiliated with CSF 2016, Lisbon, Portugal, June 27, 2016.

99. **PhDs in Logic 2016:** PhDs in Logic VIII, Technische Universität Darmstadt, Germany, May 9–11,2016.

98. **FIoTA 2016:** Future Internet and Internet of Things Applications, Puebla, Mexico, May 25–27, 2015.

97. **C&TC 2015:** 5th International Symposium on Cloud Computing, Trusted Computing and Secure Virtual Infrastructures, Rhodes, Greece, October 26–28, 2015.

96. **Esorics 2015:** 20th European Symposium on Research in Computer Security, Vienna, Austria, September 21–25, 2015.

95. **Tableaux 2015:** The 24th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, Wroclaw, Poland, September 20–24, 2015.

94. **FroCoS'15:** 10th International Symposium on Frontiers of Combining Systems, Wroclaw, Poland, September 20–24, 2015.

93. **SDSG@DSD 2015:** Special session on "System Design for the Smart Grids" at the 18th Euromicro Conference on Digital System, Funchal, Madeira, Portugal, August 26–28, 2015.

92. **TAP 2015:** The 9th International Conference on Tests & Proofs, L'Aquila, Italy, July 20–24, 2015.

91. **SECRYPT 2015:** The 12th International Conference on Security and Cryptography, part of ICETE, the 12th International Joint Conference on e-Business and Telecommunications, Colmar, Alsace, France, July 20–22, 2015.

90. **STAST 2015:** The 5th Workshop on Socio-Technical Aspects in Security and Trust, affiliated with CSF 2015, Verona, Italy, July 13, 2015.

89. **GraMSec 2015:** 2nd International Workshop on Graphical Models for Security (GraMSec), affiliated with CSF 2015, Verona, Italy, July 13, 2015.

88. **FCS 2015:** Workshop on Foundations of Security and Privacy, affiliated with CSF 2015, Verona, Italy, July 13, 2015.

87. **SecTest 2015:** The Sixth International Workshop on Security Testing, affiliated with ICST 2015, Graz, Austria, April 13, 2015.

86. **TIME 2014:** The 21st International Symposium on Temporal Representation and Reasoning (TIME 2014), Verona, Italy, September 8–10, 2014.

85. **SECRYPT 2014:** The 11th International Conference on Security and Cryptography, part of ICETE, the 11th International Joint Conference on e-Business and Telecommunications, Vienna, Austria, August 28–30, 2014.

84. **TAP 2014:** The 8th International Conference on Tests & Proofs, York, UK, July 24–25, 2014.

83. **ARQNL 2014:** Workshop on Automated Reasoning in Quantified Non-Classical Logics (ARQNL), affiliated with IJCAR 2014, Vienna, Austria, July 23, 2014.

82. **ADDCT 2014:** Automated Deduction: Decidability, Complexity, Tractability Workshop, affiliated with IJCAR 2014 and RTA 2014, Vienna Summer of Logic, Vienna, Austria, July 18, 2014.

81. **MOCHAP 2014:** The 1st ICAPS Workshop on Model Checking and Automated Planning, Portsmouth, USA, June 22-23, 2014.

80. **SECOTS 2014:** The Fourth International Symposium on Security in Collaboration Technologies and Systems (SECOTS 2014), affiliated with the International Conference on Collaboration Technologies and Systems (CTS 2014) in Minneapolis (Minnesota, USA), May 19-23, 2014.

79. **GraMSec 2014:** The International Workshop on Graphical Models for Security (GraMSec), affiliated with ETAPS 2014, Grenoble, France, April 12, 2014.

78. **HotSpot 2014:** The 2nd Workshop on Hot Issues in Security Principles and Trust (HotSpot 2014), affiliated with ETAPS 2014, Grenoble, France, April 5, 2014.

77. **SecTest 2014:** The Fifth International Workshop on Security Testing, affiliated with ICST 2014, Cleveland, Ohio, March 31 – April 4, 2014.

76. **SmartGridSec 2014:** The 2nd Workshop on Smart Grid Security, affiliated with the International Symposium on Engineering Secure Software and Systems (ESSoS'14), Munich, Germany, February 26, 2014.

75. **MACIS 2013:** The Fifth International Conference on Mathematical Aspects of Computer and Information Sciences Nanning, China, December 11-13, 2013.

74. **ESORICS 2013:** The 18th European Symposium on Research in Computer Security, Egham, UK, September 9–13, 2013.

73. **SECRYPT 2013:** The 10th International Conference on Security and Cryptography, part of ICETE, the 10th International Joint Conference on e-Business and Telecommunications, Rejkjavik, Iceland, July 29–31, 2013.

72. **STAST 2013:** The 3rd International Workshop on Socio-Technical Aspects in Security and Trust (STAST 2013), affiliated with the 26th IEEE Computer Security Foundations Symposium (CSF), New Orleans, USA, June 29, 2013.

71. **ADDCT 2013:** Automated Deduction: Decidability, Complexity, Tractability Workshop, affiliated with CADE-24, Lake Placid, New York, USA, June 10, 2013.

70. **SecTest 2013:** The Fourth International Workshop on Security Testing, affiliated with ICST 2013, Luxembourg, March 18-22, 2013.

69. **HotSpot 2013:** The 1st Workshop on Hot Issues in Security Principles and Trust (HotSpot 2013), affiliated with ETAPS 2013, Rome, Italy, March 17, 2013.

68. **POST 2013:** Conference on Principles of Security and Trust, part of ETAPS 2013, Rome, Italy, March 16–24, 2013.

67. **MOVEP 2012:** The 10th School on MOdelling and VErifying parallel Processes, CIRM, Marseille, France, December 3–7, 2012.

66. **WooPS 2012:** First International Workshop on Petri Net-based Security (WooPS 2012), a satellite event of the 33rd International Conference on Application and Theory of Petri Nets and Concurrency and of the 12th International Conference on Application of Concurrency to System Design, Hamburg, Germany, June 26, 2012.

65. **POST 2012:** Conference on Principles of Security and Trust, part of ETAPS 2012, Tallin, Estonia, March 24 – April 1, 2012.

64. **TAP 2012:** The 6th International Conference on Tests & Proofs, Prague, Czech Republic, May 31 – June 1, 2012.

63. **TOSCA 2011:** Theory of Security and Applications, Saarbruecken, Germany, March 26–27, 2011.

62. **Fast 2011:** The 8th International Workshop on Formal Aspects of Security & Trust, co-located with ESORICS 2011, Leuven, Belgium, September 15–16, 2011.

61. **SecCo 2011:** The 9th International Workshop on Security Issues in Concurrency, Aachen, Germany, September 5, 2011.

60. **SECURWARE 2011:** The Fifth International Conference on Emerging Security Information, Systems and Technologies, Côte d'Azur, France, August 21–27, 2011.

59. **Tableaux 2011:** The 20th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, Bern, Switzerland on July 4–8, 2011.

58. **ARSPA-WITS 2010:** Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, affiliated with ETAPS 2011 Saarbrücken, Germany, March 26–27, 2011.

57. **CRiSIS 2010:** 5th International Conference on Risks and Security of Internet and Systems (CRiSIS 2010), Montreal, Canada, October 10–13, 2010.

56. **FAST 2010:** The 7th International Workshop on Formal Aspects of Security & Trust, co-located with the 8th IEEE International Conference on Software Engineering and Formal Methods (SEFM2010), CNR, Pisa, Italy, September 16–17, 2010.

55. **LIS 2010:** Logics in Security Workshop, co-located with ESSLI2010, Copenhagen, Denkmark, August 9–13, 2010.

54. **SECURWARE 2010:** The Fourth International Conference on Emerging Security Information, Systems and Technologies, Venice, Italy, July 18–25, 2010.

53. **FCS-PrivMod 2010:** Workshop on Foundations of Security and Privacy, affiliated with FLoC 2010, Edinburgh, UK, July 14–15, 2010.

52. **SecArt 2010:** Second Workshop on Intelligent Security (Security and Artificial Intelligence), Atlanta, Georgia, USA, July 11, 2010.

51. **PSPL 2010:** Proof Systems for Program Logics Workshop, affiliated with FLoC 2010, Edinburgh, UK, July 14–15, 2010.

50. **MOVEP 2010:** The 9th School on MOdelling and VErifying parallel Processes, Aachen, Germany, June 28 – July 2, 2010.

49. **ARSPA-WITS 2010:** Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, Paphos, Cyprus, March 27–28, 2010.

48. **Esorics 2009:** 14th European Symposium on Research in Computer Security, Saint Malo, France, September 21–25, 2009.

47. **STM 2009:** 5th International Workshop on Security and Trust Management (in conjunction with Esorics'09), Saint Malo, France, September 24–25, 2009.

46. **FIS 2009:** Future Internet Symposium, Berlin, Germany, September 1–3, 2009.

45. **FCS 2009:** Workshop on Foundations of Computer Security, affiliated with LICS'09, Los Angeles, California, USA, August 10, 2009.

44. **ADDCT 2009:** Automated Deduction: Decidability, Complexity, Tractability Workshop, affiliated with CADE-22, Montreal, Canada, August 2, 2009.

43. **SECRYPT 2009:** International Conference on Security and Cryptography, Milano, Italy, July 7–10, 2009.

42. **SECURWARE 2009:** The Third International Conference on Emerging Security Information, Systems and Technologies, Athens, Greece, June 18–23, 2009.

41. **ARES 2009:** Fourth International Conference on Availability, Reliability and Security, Fukuoka, Japan, March 16–19, 2009.

40. **ALICS 2008:** Workshop on Applications of Logic in Security, Doha, Qatar, November 22, 2008.

39. **FIS 2008:** Future Internet Symposium, Vienna, Austria, September 28–30, 2008.

38. **FMWS 2008:** Workshop on Formal Methods for Wireless Systems, satellite workshop of CONCUR 2008, Toronto, Canada, August 19–22, 2008.

37. **IJCAR 2008:** The 4th International Joint Conference on Automated Reasoning, Sydney, Australia, August 10–15, 2008.

36. **CEDAR 2008:** Workshop on Complexity, Expressibility, and Decidability in Automated Reasoning, affiliated with IJCAR 2008, Sydney, Australia, August 10–11, 2008.

35. **PAAR 2008:** The first Workshop on Practical Aspects of Automated Reasoning, affliated with IJCAR 2008, Sydney, Australia, August 11, 2008.

34. **VERIFY 2008:** The fifth International Verification Workshop, affiliated with IJCAR 2008, Sydney, Australia, August 10–11, 2008.

33. **ARES 2008:** Third International Conference on Availability, Reliability and Security, Barcelona, Catalonia, March 4–7, 2008.

32. **APE 2008:** First International Workshop on Advances in Policy Enforcement, colocated with the 3rd ARES 2008, Barcelona, Catalonia, March 4–7, 2008.

31. **FTP 2007:** 6th International Workshop on First-Order Theorem Proving, Liverpool, UK, September 12-13, 2007.

30. **FroCoS 2007:** 6th International Symposium on Frontiers of Combining Systems, Liverpool, UK, September 10-12, 2007.

29. **SecCo 2007:** 5th International Workshop on Security Issues in Concurrency, affiliated to CONCUR 2007, Lisboa, Portugal, September 3, 2007.

28. **ADDCT 2007:** Automated Deduction: Decidability, Complexity, Tractability workshop, in connection with CADE-21, Bremen, Germany, July 15, 2007.

27. **VERIFY 2007:** 4th International Verification Workshop, in connection with CADE-21, Bremen, Germany, July 15-16, 2007.

26. **SecReT 2007:** Security and Rewriting Techniques workshop, as part of RDP 2007, Paris, France, June 29, 2007.

25. **WITS 2007:** 7th International Workshop on Issues in the Theory of Security, co-located with ETAPS 2007, Braga, Portugal, March 24–25, 2007.

24. **ARES 2007:** Second International Conference on Availability, Reliability and Security, Vienna, Austria, April 10-13, 2007.

23. **SEA 2006:** IASTED International Conference on Software Engineering and Applications (SEA) 2006, Phoenix, USA, November 13–15, 2006.

22. **CNIS 2006:** IASTED International Conference on Communication, Network, and Information Security (CNIS), MIT Faculty Club, Cambridge, Mass., USA, October 9–11, 2006.

21. **CPSec 2006:** 2nd International Workshop on Applications of Constraint Satisfaction and Programming to Computer Security (in conjunction with 12th International Conference on Principles and Practice of Constraint Programming), Nantes, France, September 26, 2006.

20. **ICS 2006:** Workshop on Information and Computer Security, Timisoara, Romania, September 29–30, 2006.

19. **STM 2006:** 2nd International Workshop on Security and Trust Management (in conjunction with Esorics'06), Hamburg, Germany, September 20, 2006.

18. **SecCo 2006:** 4th International Workshop on Security Issues in Concurrency, CONCUR 2006 Affiliated Workshop. Bonn, Germany, August 31, 2006.

17. **VERIFY 2006:** 3rd International Verification Workshop (VERIFY'06), FLoC/IJCAR Workshop, Seattle, USA, August, 15–16 2006.

16. **SecReT 2006:** 1st International Workshop on Security and Rewriting Techniques, Venice, Italy, July 15, 2006.

15. **SUTC 2006** Wireless Networks Track of the 1st IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing, Taichung, Taiwan, June 05–07, 2006.

14. **SE 2006:** IASTED International Conference on Software Engineering (SE) 2006, Innsbrück, Austria, February 14–16, 2006.

13. **IICAI 2005 session:** Special Session on Logical Consequence and its Combinations at 2nd Indian International Conference on Artificial Intelligence, Pune, India, December 20–22, 2005.

12. **SEA 2005:** IASTED International Conference on Software Engineering and Applications (SEA) 2005, Phoenix, USA, November 14–16, 2005.

11. **SSI 2005:** 7th International Symposium on System and Information Security, Sao Jose dos Campos, Brazil, November 08–11, 2005.

10. **CPSec 2005:** 1st International Workshop on Applications of Constraint Satisfaction and Programming to Computer Security (in conjunction with the 11th International Conference on Principles and Practice of Constraint Programming), Barcelona, Spain, October 1, 2005.

9. **STM 2005:** 1st International Workshop on Security and Trust Management (in conjunction with Esorics'05), Milan, Italy, September 15, 2005.

8. **LCMAS 2005:** 3rd International Workshop on Logic and Communication in Multi-Agent Systems, satellite workshop of IJCAI 2005, Edinburgh, U.K., July/August 2005.

7. **FTP 2005:** International Workshop on First-order Theorem Proving Systems, Koblenz, Germany, September 14–17, 2005.

6. **SE 2005:** IASTED International Conference on Software Engineering (SE) 2005, Innsbrück, Austria, February 15–17, 2005.

5. **QSIC 2004:** International Conference on Quality Software 2004, Universität Braunschweig, Germany, September 8–10, 2004.

4. **LCMAS 2004:** Workshop on Logic and Communication in Multi-Agent Systems, in the context of the summer school ESSLLI'04, Nancy, France, August 17–21, 2004.

3. **WOLFASI 2004:** LICS'04 Workshop on Logical Foundations of an Adaptive Security Infrastructure, associated with the LICS'04 Foundations of Computer Security (FCS'04) Workshop, Turku, Finland, July 12–13, 2004.

2. **FTP 2003:** International Workshop on First-order Theorem Proving Systems, Universidad Politécnica de Valencia, Spain, June 12–14, 2003.

1. **FroCoS 2002:** the Fourth International Workshop on the Frontiers of Combining Systems, Università di Genova, April 8-10, 2002.

5.3 Editorial Activity for Journals

Editor in Chief: Completed

1. Specialty Chief Editor on the board of Frontiers in Computer Science – Computer Security, Frontiers, August 2019 – March 2022.

Member of the Board of Editors: Active

4. Frontiers in Computer Science – Computer Security, Frontiers, Since March 2022.

3. Journal of Cybersecurity, Oxford University Press, since February 2019.

2. Acta Informatica, Springer, since January 2017.

1. Journal of Logical and Algebraic Methods in Programming (JLAMP), Elsevier, since October 2013.

Member of the Board of Editors: Completed

3. Information Processing Letters (IPL), Elsevier, November 2009 – July 2020.

2. Frontiers in Blockchain, Frontiers Media, June 2018 – August 2019.

1. Frontiers in ICT, Frontiers Media, July 2014 – August 2019.

5.4 Reviewing Activity for Journals, Conferences and Workshops

Besides for the reviewing activity carried out for the books and the journal issues that I edited, and for the conferences and workshops for which I served as PC chair or member, I have regularly been acting as reviewer for dozens of journals and conferences in computer science, in particular in the areas of logic, formal methods, automated deduction and verification, and IT-security.

5.5 Reviewing Activity for Research Projects

I have chaired

- The review of the Subject-Level Review for the Department of Computer Science, Reykjavik University, Iceland, as part of the Icelandic Quality Assessment Framework for Higher Education Institutions, 2022 (panel comprising of 2 members, both co-chairs).

- The review of the Department of Computer Science of the University of Exeter, UK, 2019 (panel comprising 3 members).

- The 4-year evaluation panel of INRIA's Research Theme "Security and Confidentiality", 2014-2018 (5 project teams, each comprising 10 to 30 people).

I have served as reviewer for research projects proposed under the following international or national research programs:

- Agence Nationale de la Recherche (ANR), France: 1 project proposal reviewed in 2011.

- Austrian Science Fund: 1 project proposal reviewed in 2016, 1 in 2010 and 1 in 2009.

- AXA Research Fund, France: 1 project proposal reviewed in 2015.

- Cyprus Research Promotion Found ation Programmes for Research, Technological Development And Innovation "restart 2016 – 2020": 1 project proposal reviewed in 2021, 1 in 2018 and 1 in 2017.

- DIM (Domaine d'Intérêt Majeur), Région Île-de-France: 1 project proposal reviewed in 2010.

- Engineering and Physical Sciences Research Council (EPSRC): 4 project proposals reviewed in 2019, 2 in 2020 and 1 in 2021.

- European Research Council: 1 project proposal reviewed in 2016, 1 in 2014 and 1 in 2010.

- French Graduate schools of research: 1 project proposal reviewed in 2017.

- Hasler Stiftung, Switzerland: 1 project proposal reviewed in 2015.

- Italian Progetti di Ricerca di Interesse Nazionale: 1 project proposal reviewed in 2018.

- Methusalem program, Flemish government: 1 project proposal reviewed in 2015.

- QTN (Quantum at Trento), a joint initiative of University of Trento (UniTN), Consiglio Nazionale delle Ricerche (CNR) and Bruno Kessler Foundation (FBK): 1 project proposal reviewed in 2020.

- Research Foundation – Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO): 1 project proposal reviewed in 2016.

- Swiss National Science Foundation (SNSF): 1 project proposal reviewed in 2010.

5.6 Reviewing Activity for Academic Appointments and Promotions

Besides for the interview panels at my own institutions, I have served as evaluator/reviewer/panel member for about 20 international academic appointments and promotions at diverse international institutions (I can't name the reviewees for confidentiality reasons).

5.7 Reviewing Activity for Habilitation Theses and PhD Theses

I have acted as external reviewer and/or jury member of the following Habilitation and PhD Theses:

Habilitation à Diriger des Recherches: reviewer and jury member

1. Mathieu Jaume, *Descriptions formelles: Comprendre, Corriger, Implanter, Réutiliser (Application au contrôle d'accès)*, Université Pierre et Marie Curie, Paris, France, October 2008.

PhD Theses: reviewer and jury member

I have acted as reviewer and jury member of the PhD thesis of 22 students at several different universities in Europe.

PhD Theses: jury member

I have acted as jury member of the PhD thesis of 48 students at several different universities in Europe.

6 Teaching

6.1 Detailed Teaching Experience

Courses: Master's (MSc) programs

29. **Cryptography (7CCSMCIS):** King's College London, first term of the academic year 2023/2024.
28. **Cryptography (7CCSMCIS):** King's College London, first term of the academic year 2022/2023.
27. **Cryptography (7CCSMCIS):** King's College London, first term of the academic year 2021/2022.
26. **Cryptography (7CCSMCIS):** King's College London, first term of the academic year 2020/2021.
25. **Cryptography:** Online MSc in Advanced Cybersecurity, King's College London, 2020.
24. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2019/2020.
23. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2018/2019.
22. **Network Security (7CCSMSE):** King's College London, second term of the academic year 2017/2018; with Asad Ali and Jose Such.
21. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2017/2018.
20. **Network Security (7CCSMSE):** King's College London, second term of the academic year 2016/2017; with Nishanth Sastry.
19. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2016/2017.
18. **Network Security (7CCSMSE):** King's College London, second term of the academic year 2015/2016; with Nishanth Sastry.
17. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2015/2016.
16. **Advanced Security Topics (7CCSMAST):** King's College London, second term of the academic year 2014/2015; with Nishanth Sastry.
15. **Cryptography and Information Security (7CCSMCIS):** King's College London, first term of the academic year 2014/2015.
14. **Software Engineering of Internet Applications (7CCSMSIA):** King's College London, second term of the academic year 2013/2014.
13. **Network Security:** University of Verona, second semester of the academic year 2012/2013.
12. **Network Security:** University of Verona, second semester of the academic year 2011/2012.
11. **Network Security:** University of Verona, second semester of the academic year 2010/2011.
10. **Network Security:** University of Verona, second semester of the academic year 2009/2010.
9. **Network and Systems Security:** University of Verona, third quadrimester of the academic year 2008/2009.
8. **Network and Systems Security:** University of Verona, third quadrimester of the academic year 2007/2008.
7. **Formal Methods for Information Security:** ETH Zurich, winter semester 2005/2006.

6. **Formal Methods for Information Security:** with Dr. Heiko Mantel, ETH Zurich, summer semester 2004.

5. **IT-Security, Theory and Practice:** with Prof. Dr. David Basin, Uwe Jendricke and Prof. Dr. Günter Müller, Albert-Ludwigs-Universität Freiburg, winter semester 2002/2003.

4. **IT-Security, Theory and Practice:** with Prof. Dr. David Basin, Uwe Jendricke and Prof. Dr. Günter Müller, Albert-Ludwigs-Universität Freiburg, winter semester 2001/2002.

3. **IT-Security, Theory and Practice:** with Prof. Dr. David Basin, Uwe Jendricke and Prof. Dr. Günter Müller, Albert-Ludwigs-Universität Freiburg, winter semester 2000/2001.

2. **IT-Security, Theory and Practice:** with Prof. Dr. David Basin, Uwe Jendricke and Prof. Dr. Günter Müller, Albert-Ludwigs-Universität Freiburg, winter semester 1999/2000.

1. **Lambda-Calculus and Type Theory:** assistant of Prof. Dr. David Basin and Prof. Dr. Harald Ganzinger, Universität des Saarlandes, summer semester 1995.

Courses: Bachelor programs (BSC & MSci)

30. **Cryptography (6CCS3CIS):** King's College London, first term of the academic year 2023/2024.

29. **Cryptography (6CCS3CIS):** King's College London, first term of the academic year 2022/2023.

28. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2021/2022.

27. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2020/2021.

26. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2019/2020.

25. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2018/2019.

24. **Network Security (6CCS3NSE):** King's College London, second term of the academic year 2017/2018; with Asad Ali and Jose Such.

23. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2017/2018.

22. **Network Security (6CCS3NSE):** King's College London, second term of the academic year 2016/2017; with Nishanth Sastry.

21. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2016/2017.

20. **Network Security (6CCS3NSE):** King's College London, second term of the academic year 2015/2016; with Nishanth Sastry.

19. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2015/2016.

18. **Advanced Security Topics (6CCS3AST):** King's College London, second term of the academic year 2014/2015; with Nishanth Sastry.

17. **Cryptography and Information Security (6CCS3CIS):** King's College London, first term of the academic year 2014/2015.

16. **Software Engineering:** University of Verona, second semester of the academic year 2012/2013.

15. **Software Engineering:** University of Verona, second semester of the academic year 2011/2012.

14. **Software Engineering:** University of Verona, second semester of the academic year 2010/2011.

13. **Software Engineering:** University of Verona, second semester of the academic year 2009/2010.

12. **Logic for Computer Science:** University of Verona, first semester of the academic year 2009/2010.

11. **Software Architectures:** University of Verona, first and second quadrimester of the academic year 2008/2009.
10. **Software Architectures:** University of Verona, first and second quadrimester of the academic year 2007/2008.
 9. **Computer Networks:** University of Verona, third quadrimester of the academic year 2006/2007.
 8. **Software Architectures:** University of Verona, first and second quadrimester of the academic year 2006/2007.
 7. **Information Security:** with Prof. Dr. David Basin and Prof. Dr. Ueli Maurer, ETH Zurich, summer semester 2006.
 6. **Information Security:** with Prof. Dr. David Basin and Prof. Dr. Ueli Maurer, ETH Zurich, summer semester 2005.
 5. **Information Security:** with Prof. Dr. David Basin, ETH Zurich, winter semester 2003/2004.
 4. **Information Security:** with Prof. Dr. David Basin, ETH Zurich, summer semester 2003.
 3. **Software Engineering:** with Prof. Dr. David Basin and Dr. Burkhart Wolff, Albert-Ludwigs-Universität Freiburg, summer semester 2002.
 2. **Software Engineering:** with Prof. Dr. David Basin and Dr. Burkhart Wolff, Albert-Ludwigs-Universität Freiburg, summer semester 2000.
 1. **Software Engineering:** with Prof. Dr. David Basin and Dr. Burkhart Wolff, Albert-Ludwigs-Universität Freiburg, summer semester 1999.

Seminars (master's and bachelor level)

4. **Security in Software Architectures:** with Prof. Dr. David Basin and Dr. Burkhart Wolff, Albert-Ludwigs-Universität Freiburg, summer semester 2001.
3. **Security in Communication Technology:** seminar, with Prof. Dr. David Basin and Prof. Dr. Günter Müller, Albert-Ludwigs-Universität Freiburg, winter semester 1998/1999.
2. **Formal Aspects of Computer Security:** seminar, with Prof. Dr. David Basin and Stefan Friedrich, Albert-Ludwigs-Universität Freiburg, summer semester 1998.
1. **Logical Frameworks and Logic Engineering:** seminar, with Prof. Dr. David Basin and Dr. Seán Matthews, Universität des Saarlandes, winter semester 1995/1996.

Courses: University Master programs (post-graduate)

1. **Fundamentals of Software Engineering:** Master in Computer Game Programming, University of Verona, first semester of the academic year 2009/2010.

Courses: PhD programs

2. **Security at Work:** Department of Computer Science, University of Pisa, Italy, May 27–31, 2013.
1. **Deduction Systems for Non-Classical Logics:** University of Verona, PhD Course, third quadrimester of the academic year 2007/2008.

PhD Summer School Courses

8. **Fondamenti di Cyber-security e Privacy dei Sistemi Autonomi Affidabili:** Department of Law, University of Verona, Italy, December 2022 – May 2023.

7. **Formalizing the Human Dimension of Cybersecurity:** University of Rome La Sapienza, Italy, September 14–15, 2022.

6. **Formal Methods for Security Analysis:** University of Bari, Italy, July 25–28, 2022.

5. **Formalizing the Human Dimension of Cybersecurity:** Reykjavik University, Iceland, June 20–24, 2022.

4. **Formal Methods for Security Analysis:** University of New South Wales, Sydney, Australia, February 14–18, 2020.

3. **Formalizing the Human Dimension of Cybersecurity:** IMT Lucca, Italy, March 26, 2019.

2. **Logica Computazionale:** Summer School AILA – Associazione Italiana di Logica e sue Applicazioni, Gargnano, Italy, August 29 – September 4, 2010.

1. **On-the-fly Model Checking of Security Protocols and Web Services:** 9th International School on Foundations of Security Analysis and Design, University Residential Center of Bertinoro, Italy, August 30 – September 4, 2009.

Invited Courses and Lectures

5. **Privacy and Anonymity in the e-Society:** block-course as part of the course Information Security, University of Genova, Italy, May 22, 2006.

4. **Model Checking of Security Protocols:** block-course as part of the course Language-Based Security, Informatics and Mathematical Modelling, Technical University of Denmark, Copenhagen, March 11, 2005.

3. **Introduction to Security Logics:** block-course as part of the course Artificial Intelligence, University of Genova, Italy, March 01 and 06, 2002.

2. **Labelled Non-Classical Logics:** advanced block-course, Instituto Superior Técnico, Lisbon, Portugal, from September 27 to October 01, 1999.

1. **Introduction to Security Logics:** block-course as part of the course Artificial Intelligence, University of Genova, Italy, March 29–30, 1999.

Tutorials at conferences and schools

5. **Model checking and formal methods for the analysis of security protocols and web services:** Tutorial, 21ST Workshop On Logic, Language, Information and Computation (WOLLIC 2014), Valparaiso, Chile, September 1–4, 2014.

4. **Automated Validation of Trust and Security of Service-oriented Architectures:** Tutorial, WOSS'10, Timisoara, Romania, September 25, 2010.

3. **AVASP'05:** ETAPS'05 Tutorial on Automated Validation of Security Protocols, Edinburgh, Scotland, April 3, 2005. Together with Sebastian Mödersheim and Dr. David van Oheimb.

2. **Labelled Deductive Systems:** Tutorial at the First World Congress and School on Universal Logic, Montreaux, Switzerland, from March 26 to April 3, 2005.

1. **AVASP'04:** IJCAR'04 tutorial on Automated Validation of Security Protocols, Cork, Ireland, July 5, 2004. Together with Dr. Jorge Cuellar and Sebastian Mödersheim.

Industry Courses

5. **Fundamentals of Software Engineering:** industry course, Navionics, Pisa, Italy, November 12-13, 2010.

4. **Formal Methods for Information Security:** industry course, Selex Sistemi Integrati, Genova, Italy, January 19, 2007.

3. **Information Security – Fundamental Concepts and Solutions:** industry course, ETH Zurich, October 2 and 3, 2006. Together with Prof. Dr. David Basin.
2. **Information Security Fundamentals:** industry course, ETH Zurich, February 8 and 9, 2005. Together with Prof. Dr. David Basin.
1. **Information Security Fundamentals:** industry course, ETH Zurich, March 22 and 23, 2004. Together with Prof. Dr. David Basin.

6.2 Supervision of Students

Postdocs: Current

2. Megha Quamara. Topic: Security and Privacy of Extended Reality Systems. Since June 2023.
1. Sachini Weerawardhana. Topic: Trusted Autonomous Systems. Since August 2021.

Postdocs: Former

5. Michele Peroli. Topic: Formal security testing of web applications. University of Verona. April 2015 – December 2016.
4. Marco Volpe. Topic: Attack patterns, trees and graph for the automated formal testing of applications in the Internet of Services. University of Verona. April 01, 2012 — September 30, 2015.
3. Michele Barletta. Topic: Penetration testing and industrial applications. Università di Verona. May 01, 2012 – June 30, 2013.
2. Marco Volpe. Topic: Deduction systems for temporal logics and their application to problems in information security. Università di Verona. May 01, 2010 – February 28, 2011.
1. Silvio Ranise. Topic: Formal methods for the validation of security services. Università di Verona. May 01, 2008 – May 31, 2010.

PhD students: Current

5. Ioana Sandu. Topic: Formal Security Analysis of Trustworthy Autonomous Systems. King's College London. Since October 2022.
4. Amir Kiani. Topic: Explainable Security. King's College London. Since October 2021.
3. Andrew Cook. Topic: Security of Protocols for Movement. King's College London. Since October 2018.
2. Rawan Alrahili. Topic: Security of temporal networks and business processes. King's College London. Since January 2017.
1. Parvin Sadigova. Topic: SAT-based reasoning. King's College London. Since October 2015.

PhD students: Former

11. Diego Sempreboni. *A formal approach for the analysis of the security of socio-technical systems.* King's College London. September 2020.
10. Federico De Meo. *A Formal and Automated Approach to Exploiting Multi-Stage Attacks of Web Applications*, Università di Verona. May 2018.
9. Matteo Zavatteri. *Temporal and Resource Controllability of Workflows Under Uncertainty*, Università di Verona. May 2018.

8. Michele Peroli. *A Model-Based Security Testing Approach for Web Applications.* Università di Verona. April 2015.
7. Alberto Calvi. *Methods for Model-Based and Vulnerability-driven Security Testing.* Università di Verona. April 2015.
6. Marco Rocchetto. *Methods and tools for design time and runtime formal analysis of security protocols and web applications.* Università di Verona. April 2015.
5. Erisa Karafili. *Deduction and algorithmic approaches to reason about risk, privacy and security in multi-agent systems*, Università di Verona, April 2014.
4. Michele Barletta. *Authorization Policies in Security-Sensitive Web Services and Applications: Formal Modeling and Analysis*, Università di Verona, April 2012.
3. Marco Volpe, *Labeled Natural Deduction for Temporal Logics*, Università di Verona, May 2010.
2. Paul Hankes Drielsma, *Building Formal Models of Next Generation Security Protocols*, ETH Zurich, 2007. Joint supervision with Prof. Dr. David Basin.
1. Sebastian Mödersheim, *Models and Methods for the Automated Analysis of Security Protocols*, ETH Zurich, 2007. Joint supervision with Prof. Dr. David Basin.

Research associates (pre-PhD, "assegnisti di ricerca")

In addition to the Postdoc-positions of Michele Barletta, Silvio Ranise and Marco Volpe, and the PhD-positions of Michele Barletta, Davide Guardini and Marco Rocchetto, which have been funded by research associate contracts financed by the projects I have been coordinating, I have supervised the following pre-PhD research associate positions:

5. Federico De Meo. Topic: Attack patterns, trees and graph for the automated formal testing of applications in the Internet of Services. University of Verona. April 1, 2013 – December 31, 2013.
4. Davide Guardini. Topic: Attack patterns, trees and graph for the automated formal testing of applications in the Internet of Services. University of Verona. April 1, 2012 – December 31, 2012.
3. Alberto Calvi. Topic: Languages and methods for the formal analysis of security policies in protocols and web services. Università di Verona. June 01, 2009 – December 31, 2010.
2. Luca Murarolli, Topic: Development, implementation and application of an automated platform for the analysis of service-oriented architectures. Università di Verona. May 01 – December 31, 2010.
1. Marco Rocchetto, Topic: Development, implementation and application of an automated platform for the analysis of service-oriented architectures. Università di Verona. May 01 – December 31, 2010.

MSc students

- Supervisor of more than 40 MSc theses at King's College London.

MSc students and students of the 5 year specialized degree in computer science (laurea specialistica/magistrale)

- Supervisor of more than 30 theses completed at the Università di Verona.
- Co-supervisor of 7 theses completed at the Università di Verona.
- Examiner of more than 20 theses di Laurea Specialistica/Magistrale completed at the Università di Verona.

BSc/MSCi students

- Supervisor of more than 40 theses at King's College London.

Bachelor students (3 year degree) in computer science (laurea triennale)

- Supervisor of more than 100 theses completed at the Università di Verona.

7 Research

7.1 Research Projects and Grants

Scientific Coordinator (ex Principal Investigator) of Horizon Europe projects:

1. **SERMAS: Socially-acceptable Extended Reality Models And Systems (10/2022–09/2025)**
   Project consortium:

   (a) King's College London, UK.

   (b) Technical University of Darmstadt, Germany.

   (c) Università di Modena e Reggio Emilia, Italy.

   (d) Deutsche Welle, Germany.

   (e) F6S, Ireland.

   (f) Poste Italiane, Italy.

   (g) Spindox Labs, Italy.

   (h) Scuola Universitaria Professionale della Svizzera Italiana, Switzerland.

   Further information is available at `https://sermasproject.eu`.
   I was actually the Principal Investigator, who wrote the vast majority of the proposal and was awarded the grant, but unfortunately the UK failed to secure association to Horizon Europe, so I had to hand over as PI to a colleague in Italy. I maintain a leadership role as Scientific Coordinator of the project.
   Budget: €5,725,593 (initial award to self: €1,815,763, final award value to self: €642,614).

Principal Investigator of projects at King's College London:

2. **Cryptoculture 3.0: The creative partnership of Cybersecurity, Psychology and the Arts (10/2019–03/2020)**
   A multi-disciplinary exploratory project that aims at laying the foundations of a Third Culture of Cybersecurity by exploring how the arts (popular films, novels and other artworks) can be employed, through the mediation of psychology, to explain cybersecurity, teach cybersecurity and, ultimately, inspire innovative research in cybersecurity.
   Funding: £19,973.

1. **A Formal Tool For The Analysis Of the Socio-technical Security Of Cyber-systems (10/2016–09/2019)**
   The project aims to lay the foundations of the formal and systematic analysis of socio-technical security, a discipline that is still in its infancy, with little recognized methodologies or comprehensive toolsets. The project has been pushing current formal models to capture human behavioural and cognitive aspects in their relation with "machine" security.
   Funding: £82,800 (£45,000 contributed by King's College London through the Professor Sir Richard Trainor PhD Scholarships and £37,800 contributed by the company Go-Ahead).

Principal Investigator of FP7 projects: Principal Investigator (scientific and administrative coordinator) of

2. **SPaCIoS: Secure Provision and Consumption in the Internet of Services (10/2010–01/2014)**

7th Framework Programme Theme ICT-2009.1.4 (Trustworthy ICT), Strep project no. 257876, aiming at laying the technological foundations for a new generation of analyzers for automated security validation at service provision and consumption time.
Project consortium:

(a) Università degli Studi di Verona, Italy.

(b) ETH Zurich, Switzerland.

(c) Institut Polytechnique de Grenoble, France.

(d) Karlsruher Institut fuer Technologie, Germany.

(e) Università degli Studi di Genova, Italy.

(f) SAP AG, Sophia Antipolis, France.

(g) Siemens AG, Munich, Germany.

(h) Institute e-Austria Timişoara (IEAT), Timisoara, Romania.

Further information is available at `www.spacios.eu`.

Budget: €5,677,084.00. EC Contribution: €3,610,000.00.

1. **AVANTSSAR: Automated VAlidatioN of Trust and Security of Service-Oriented ARchitectures (01/2008–12/2010)**
7th Framework Programme Theme ICT-1-1.4 (Secure, dependable and trusted Infrastructures), Strep project no. 216471, aiming at developing a rigorous technology for the formal specification and automated validation of trust and security of service-oriented architectures.
Project consortium:

(a) Università degli Studi di Verona, Italy.

(b) ETH Zurich, Switzerland.

(c) Institut National de Recherche en Informatique (INRIA) Nancy, France.

(d) Institut de Recherche en Informatique de Toulouse (IRIT), France.

(e) Università degli Studi di Genova, Italy.

(f) IBM Zurich Research Laboratory, Switzerland.

(g) OpenTrust, Paris, France.

(h) Institute e-Austria Timişoara (IEAT), Timisoara, Romania.

(i) SAP AG, Sophia Antipolis, France.

(j) Siemens AG, Munich, Germany.

Further information is available at `www.avantssar.eu`.

Budget: €6,070,954.80. EC Contribution: €3,800,000.00.

Principal Investigator of Italian MIUR projects: Principal Investigator (coordinator) of the Verona unit of the Italian MIUR projects:

2. **Security Horizons, PRIN'11 (2013–2016)**

(a) Università degli Studi di Pisa (project coordinator: Prof. Pierpaolo Degano), Italy,

(b) Università degli Studi di Cagliari, Italy.

(c) Università degli Studi di Genova, Italy.

(d) Università degli Studi di Napoli "Federico II", Italy.

(e) Università degli Studi di Milano, Italy.

(f) Università Ca' Foscari di Venezia, Italy,

(g) Università degli Studi di Verona, Italy.

(h) Consiglio Nazionale delle Ricerche, Italy.

Funding of the Verona unit: €87,000.

1. **SOFT: Software Oriented Formal Techniques, PRIN'07 (22/09/2008-21/09/2010)**

   (a) Università Ca' Foscari di Venezia (project coordinator: Prof. Riccardo Focardi), Italy,

   (b) Università degli Studi di Pisa, Italy,

   (c) Università degli Studi di Verona, Italy.

   Funding: €56,400.

Co-Investigator of projects with UK-based funding:

4. **Enhancing Deception Analysis with Storytelling AI (11/2022–10/2024).**
   Funded by the Royal Academy of Engineering. PI: Stefan Sarkadi, Co-I: Luca Viganò.
   Funding: £200,000.

3. **A Pilot: Risk Management-based Framework for Developing Intelligent Systems for Natural Disasters (07/2020–12/2021).**
   Funded by the PLUS Alliance (Arizona State University, King's College London, University of New South Wales). PI: Elena Sitnikova, Co-Is: Luca Viganò and others.
   Funding: £60,000 (£19,000 to self).

2. **UKRI Trustworthy Autonomous Systems Hub (09/2020–08/2024).**
   The UKRI TAS Hub (`https://www.tas.ac.uk`) is establishing a collaborative platform for the UK to deliver world-leading best practices for the design, regulation and operation of socially beneficial autonomous systems which are both trustworthy in principle, and trusted in practice by individuals, society and government. The Hub assembles a team from the Universities of Southampton, Nottingham and King's College London, and Luca Viganò is one of the co-Is of the Hub.
   Funding: several million pounds overall, £2,167,329.60 to King's College London.

1. **DADD: Discovering and Attesting Digital Discrimination (08/2018–07/2021).**
   DADD (`https://dadd-project.github.io`) is a cross-disciplinary collaboration following a continuously-running co-creation process with academic (Computer Science, Digital Humanities, Law and Ethics) and non-academic partners (Google, AI Club), and the general public, including technical and non-technical users. DADD will design groundbreaking methods to certify whether or not datasets and algorithms discriminate by automatically verifying computational non-discrimination norms, which will in turn be formalised based on socio-economic, cultural, legal, and ethical dimensions, creating the new transdisciplinary field of digital discrimination certification. PI: Jose Such, Co-Is: Luca Viganò and others.
   Funding: £653,776.

Project co-proposer and participant: FP projects

3. **GeTFUN: Generalizing Truth-Functionality (01/2013–12/2016)**
   EU-FP7 Marie Curie project PIRSES-GA-2012-318986 aiming at studying and relating various well-motivated ways in which the attractive properties and meta-properties of truth-functionality may be generalized to cover more extensive logical grounds. Local coordinator for the Università degli Studi di Verona, Italy, from January 2013 to December 2013, and local coordinator for King's College London, UK, from January 2014. Project co-proposer and actively involved in the research activity.
   Funding: €222,000.

2. **AVISPA: Automated Validation of Internet Security Protocols and Applications (01/2003–06/2005)**
   Information Society Technologies (IST) Programme, FET Open Project IST-2001-39252, aiming at developing validation tools for Internet security protocols and applications. In cooperation with DIST (Università di Genova, Italy), LORIA-INRIA-Lorraine (Nancy, France), and Siemens AG (München, Germany). Project co-proposer and actively involved in the research activity.
   The AVISPA Project was shortlisted for the EU Descartes Prize for Research 2006.
   Funding: €2,047,585.

1. **AVISS: Automated Verification of Infinite State Systems (05/2001–04/2002)**
   Information Society Technologies (IST) Programme, FET Open Assessment Project IST-2000-26410, aiming at laying the foundations of a new generation of verification tools for automatic error detection for e-commerce and related security protocols. In cooperation with DIST (Università di Genova, Italy) and LORIA-INRIA-Lorraine (Nancy, France). German co-proposer and project coordinator, with Prof. Dr. David Basin, and actively involved in the research activity.
   Funding: €100,000.

Project co-proposer and participant: German projects

3. **SAWAGE: Security Aware Agents (10/2002–09/2004)**
   Research project sponsored by the DFG (the German Research Council) aiming at developing a multi-modal logic for the specification and analysis of security protocols and properties. Project co-proposer, with Prof. Dr. David Basin, and actively involved in the research activity.
   Funding: 1 research scientist position for the project duration (approximately €80,000).

2. **FSA: Formal Security Architectures (10/2000–10/2002)**
   Research project sponsored by the DFG (the German Research Council) and associated with the "Schwerpunktprogramm Sicherheit SPPS", aiming at developing formal methods for the specification of software architectures and the analysis of their security requirements and properties. Project co-proposer, with Prof. Dr. David Basin and Dr. Burkhart Wolff, and actively involved in the research activity.
   Funding: 2 research scientist positions for the project duration (approximately €160,000).

1. **Combining Automated Reasoners**
   Research project sponsored by the DAAD (German Academic Exchange Service) with DIST (Università di Genova, Italy), as part of the Vigoni-Programme 1999–2001. Project co-proposer and coordinator with Prof. Alessandro Armando.
   Funding: €10,000.

Project proposer and participant: Industry projects

1. **A Semi-Automated Security Testing Tool Based on Attacker Models (09/2012–08/2014)**
   Research project sponsored by Siemens AG (Munich Research Labs) aiming at developing a prototype tool that integrates several attacker models (one for each considered vulnerability) in order to perform a semi-automated (user driven) search of security vulnerabilities of a web application.
   Funding: 1 senior research scientist position for the project duration (€90,000).

7.2 Tools and Software

Besides for minor software and tools, in the course of the projects AVANTSSAR, AVISPA and AVISS, I have supervised and participated at the development of the OFMC Tool (Open-Source Fixed-point Model-Checker, formerly knows as On-the-Fly Model Checker for security protocol analysis), which is part of the AVISPA Tool for the automated validation of Internet security protocols and applications and of the AVANTSSAR Platform for the automated validation of trust and security aspects of web services and service-oriented architectures). OFMC, AVISPA, and AVANTSSAR are state-of-the-art tools and are freely available. Moreover, the AVANTSSAR Platform has been providing the basis for the SPaCIoS Tool, developed, and freely available, in the context of the SPaCIoS project.
I have also contributed to the development of the following other tools:

- Esse, a tool for Conditional Simple Temporal Network with Uncertainty, and
  Zeta, a tool for Constraint Networks Under Conditional Uncertainty.
- The Model-based Security Testing Framework for Web Applications MobSTer.
- The Security Protocol interpolation Method SPiM.
- The Web Application Formal Exploiter WAFEx.
- X-Men, an extension of Tamarin for the formal and automated analysis of security ceremonies and socio-technical systems.

7.3 Keynotes, Invited Talks and Lectures

Besides for the invited courses and tutorials listed under the teaching activity, and besides for the presentations of papers at conferences, I have been invited to give more than 50 talks and lectures, at various conferences, meetings, and seminars, on the specification and verification of security protocols and architectures, as well as on labelled deduction systems for non-classical logics.
I do not list the panels I have been invited to speak at, including four panels at the Italian Cultural Institute in London about cybersecurity, AI and tennis.

My most recent keynotes, invited talks and lectures are:

54. *E vissero per sempre cybersicuri e contenti*, talk at the "Festival della Scienza", Genova, Italy, October 29, 2023.
53. *Cybersecurely ever after — The cybersecurity of fairy tales (and more)*, online lecture at the MSc in Cybersecurity, Politecnico di Torino, Italy, October 25, 2023.
52. *Cybersecurily ever after*, talk at "New Scientist Live (The world's greatest festival of ideas and discoveries)", London, UK, October 8, 2023.
51. *And they lived cybersecurely ever after*, online lecture at University College London, UK, August 1, 2023.
50. *E vissero per sempre cybersicuri e contenti*, talk at the "Festival Andersen", Sestri Levante, Italy, May 24, 2023.
49. *Cybersecurity, Nicolas Cage, Peppa Pig and Cinderella*, invited keynote at CSE4IA'23, the 1st International Workshop on Cyber Security Education for Industry and Academia, co-located with IS-EUD 2023, Cagliari, Italy, June 06, 2023.
48. *Fairy Tales of AI and Cybersecurity*, invited talk at the "AI Festival" organised by King's College London, May 24, 2023.

47. *Cybersecurity, Nicolas Cage and Peppa Pig*, invited keynote at ICISSP 2023, the 9th International Conference on Information Systems Security and Privacy, Lisbon, Portugal, February 22-24, 2023.

46. *Formal Methods for Socio-Technical Security (Formal and Automated Analysis of Security Ceremonies)*, invited keynote at SecITC 2022, the 15th International Conference on Information Technology and Communications, online, December 8–9, 2022.

45. *Don't Tell Me The Cybersecurity Moon Is Shining... (Cybersecurity Show and Tell)*, invited keynote at SECRYPT 2022, the 19th International Conference on Security and Cryptography, Lisbon, Portugal, July 11-13, 2022.

44. *Formal Methods for Socio-Technical Security (Formal and Automated Analysis of Security Ceremonies)*, invited keynote at COORDINATION 2022, the 24th International Conference on Coordination Models and Languages, as part of DisCoTec 2022, the 17th International Federated Conference on Distributed Computing Techniques, Lucca, Italy, June 13–17, 2022.

43. *Cybersecurity, Nicolas Cage and Peppa Pig*, invited online lecture at "Collegio Clesio", promoted by the University of Trento, Italy, to offer to the most talented and motivated students the opportunity to access advanced training, February 17, 2022.

42. *Cybersecurity, Nicolas Cage and Peppa Pig*, online talk at the "Festival of Disruptive Thinking" organised by King's College London, November 4, 2021.

41. *Don't Tell Me the Cybersecurity Moon is Shining... (Cybersecurity Show and Tell)*, keynote talk at "INTERACT 2021, the 18th International Conference promoted by the IFIP Technical Committee 13 on Human-Computer Interaction", Bari, Italy, August 30 – September 3, 2021.

40. *Security is Mortals' Chiefest Enemy*, keynote talk at "ITASEC 2020 – The 4th Italian Conference on CyberSecurity", Università Politecnica delle Marche, Italy, February 4–7, 2020.

39. *Cyberspace — Explainable Security*, annual Lecture of the King's College London Engineers' Association (KCLEA), King's College London, February 27, 2019.

38. *Explaining Cybersecurity with Movies and the Arts*, invited talk at "WSF18 – The 2018 Workshop on Security Frameworks (Informatics IS Cybersecurity)", University of Catania, Italy, December 12, 2018.

37. *Explainable Security*, distinguished lecture at TechSocial, UCL, UK, November 21, 2018.

36. *A Labeled Logic for Analyzing Cyber-Forensics Evidence*, distinguished lecture at Hebrew University, Jerusalem, Israel, November 11, 2018.

35. *Framing the Hacker (Explaining Cybersecurity with Movies and the Arts)*, distinguished lecture at the Comparative Literature Research Seminar, King's College London, UK, October 3, 2018.

34. *A Formal Approach to Cyber-Physical Attacks*, invited talk at "FCS 2018 – Workshop on Foundations of Computer Security 2018", affiliates with FLoC, Oxford, UK, July 8, 2018.

33. α-β *privacy*, distinguished lecture at the Knowledge Media Institute, The Open University, UK, June 15, 2018.

32. α-β *privacy*, distinguished lecture at the University of Genova, Italy, May 18, 2018.

31. *A Formal Approach to Cyber-Physical Attacks*, distinguished lecture, Information Security Group, UCL, UK, May 3, 2018.

30. α-β *privacy*, distinguished lecture at the CANES Doctoral School retreat, Cumberland Lodge, UK, February 17, 2018.

29. α-β *privacy*, distinguished lecture, Theory group's (PPLV) research seminar at UCL, UK, July 04, 2017.

28. α-β *privacy*, distinguished lecture at the University of Luxembourg, February 28, 2017.

27. α-β *privacy*, distinguished lecture at the University of Eindhoven, The Netherlands, October 18, 2016.

26. *Is security really mortals' chiefest enemy?*, distinguished lecture at Microsoft Singapore, July 29, 2016.

25. *α-β privacy*, distinguished lecture at the Singapore University of Technology and Design, July 28, 2016.

24. *α-β privacy*, invited talk at the 30th Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 2016), Trento, Italy, July 18-20, 2016.

23. *α-β privacy*, invited talk at "GeTFun 4.0 2016: Compositional Meaning in Logic", satellite workshop of IJCAR 2016, Coimbra, Portugal, July 1-2, 2016.

22. *Formal Methods for Security Protocol Analysis*, distinguished lecture at University of Sao Paulo, Brazil, May 12, 2016.

21. *α-β privacy*, distinguished lecture at FBK Trento, Italy, April 29, 2016.

20. *Security is Beautiful*, invited talk at the Conference in honour of Amílcar Sernadas, IST Lisbon, Portugal, April 23, 2016.

19. *α-β privacy*, invited talk at "Algebra and Coalgebra meet Proof Theory", ALCOP VII, Vienna, Austria, April 7–9, 2016.

18. *Modal and Temporal Deduction Systems for Quantum State Transformations*, invited talk at the 21ST Workshop On Logic, Language, Information and Computation (WOLLIC 2014), Valparaiso, Chile, September 1–4, 2014.

17. *Defining privacy is supposed to be easy*, invited talk at the joint UK-Germany Automated Reasoning Workshop (ARW-DT), a satellite IJCAR workshop as part of Vienna Summer of Logic, July 23–24, 2014.

16. *Formal Methods for the Security of the Internet of Services*, invited talk at the 6th Workshop on Intuitionistic Modal Logic and Applications (IMLA), Rio de Janeiro, Brazil, April 7, 2013.

15. *Towards a Logical Framework for Reasoning about Risk*, invited talk (and invited paper [C42]) at SeCIHD'12, the 2nd IFIP International Workshop on Security and Cognitive Informatics for Homeland Defense, in conjunction with ARES 2012, University of Economics in Prague, Czech Republic, August 20-24, 2012.

14. *Automated Validation of Trust and Security of Service-Oriented Architectures with the AVAN-TSSAR Platform*, invited talk (and invited paper [C41]) at HPCS 2012, the 2012 International Conference on High Performance Computing & Simulation, Madrid, Spain, July 2–6, 2012.

13. *On collaboration and non-collaboration in network security – two case studies*, invited talk at the First International Workshop on Socio-Technical Aspects in Security and Trust (STAST 2011), affiliated with the 5th International Conference on Network and System Security (NSS 2011), Milano, Italy, September 8, 2011.

12. *Automated Validation of Trust and Security of Service-oriented Architectures and Secure Provision and Consumption in the Internet of Services*, invited talk at the First International Workshop on Securing Services on the Cloud (IWSSC 2011), affiliated with the 5th International Conference on Network and System Security (NSS 2011), Milano, Italy, September 7, 2011.

11. *Automated Validation of Trust and Security of Service-oriented Architectures and Secure Provision and Consumption in the Internet of Services*, Distinguished Lecture at the University of Luxembourg, June 16, 2011.

10. *Automated Validation of Trust and Security of Service-oriented Architectures and Secure Provision and Consumption in the Internet of Services*, invited presentation at the European Commission, Unit F.5: Trust & Security, DG Information Society & Media, Brussels, February 16, 2011.

9. *Automated Validation of Internet Security Protocols*, invited talk at WoSS 2010, the 1st Workshop on Software Services, Timisoara, Romania, September 25, 2010.

8. *Security Policy Specification and Validation with the AVANTSSAR Platform*, invited talk at POFI 2010, the International Workshop on Policies for the Future Internet, Pisa, Italia, March 5, 2010.

7. *Automated Validation of Trust and Security of Service-oriented Architectures*, invited lecture at the ZISC Information Security Colloquium Autumn Semester 2009, ETH Zurich, Switzerland, November 17, 2009.

6. *Automated Validation of Internet Security Protocols*, invited talk at the 2nd Information Security Workshop, TheNIS — Thematic Network in Information Security, IST Lisbon, Portugal, July 17, 2007.

5. *Automated Protocol Analysis in the Presence of an Algebraic Intruder*, invited talk at the 4th International Conference on Information and the 4th Irish Conference on the Mathematical Foundations of Computer Science and Information Technology'06 (Information-MFCSIT'06), Special Session on Formal Approaches to Security, Cork, Ireland, August 1–5, 2006.

4. *A Framework for Algebraic Intruder Deductions*, invited talk at the 22nd Conference on the Mathematical Foundations of Programming Semantics (MFPS'06), Special Session on Security, University of Genova, Italy, May 24–27, 2006.

3. *Automated Validation of Internet Security Protocols: Present and Future*, invited talk at the Artist2 Workshop on Specification and Verification of Secure Embedded Systems, Pisa, Italy, May 18, 2006.

2. *Automated Validation of Internet Security Protocols: Present and Future*, keynote talk at the 6th International Workshop on Issues in the Theory of Security (WITS'06), co-located with ETAPS 2006, Vienna, Austria, March 25, 2006.

1. *Automated Validation of Internet Security Protocols and Applications*, at the 21st Conference on the Mathematical Foundations of Programming Semantics (MFPS'05), Special Session on Security, University of Birmingham, U.K., May 18–21, 2005.

I have given the other invited talks at various international research centers, including:

- Department of Informatics and Mathematical Modelling, Technical University of Denmark, Lyngby, Denmark.
- INRIA Lorraine, Nancy, France.
- Laboratoire Spécification et Vérification LSV, ENS Cachan, France.
- Albert-Ludwigs-Universität Freiburg, Germany.
- Department für Informatik, Technische Universität Dortmund, Germany.
- IBFI Schloss Dagstuhl, Germany.
- Institut für Computerlinguistik, Universität des Saarlandes, Saarbrücken, Germany.
- Mathematisches Institut, Ludwigs-Maximilian-Universität München, Germany.
- Max-Planck-Institut für Informatik, Universität des Saarlandes, Saarbrücken, Germany.
- Dipartimento di Informatica, Sistemistica e Telematica, Università di Genova, Italy.
- Dipartimento di Elettronica e Informazione, Politecnico di Milano, Italy.
- Dipartimento di Informatica, Università di Pisa, Italy.
- Dipartimento di Informatica, Università di Venezia, Italy.
- Dipartimento di Informatica, Università di Verona, Italy.
- Dipartimento di Matematica, Università di Bologna, Italy.
- Dipartimento di Scienze Ambientali, Informatica e Statistica, Università di Venezia, Italy.
- DISI, Università di Genova, Italy.

- DIST, Università di Genova, Italy.
- Istituto per la Ricerca Scientifica e Tecnologica, Trento, Italy.
- Dipartimento di Informatica e Automazione, Università di Roma Tre, Italy.
- Department of Computer Science, University of Luxembourg.
- Departamento de Matemática, Instituto Superior Técnico, Lisbona, Portugal.
- Credit Suisse, Zürich, Switzerland.
- Institut für Informatik und angewandte Mathematik, Universität Bern, Switzerland.
- Department of Computer Science, ETH Zurich, Switzerland.
- Imperial College, London, U.K.
- Queen Mary University of London, London, U.K.
- Reykjavik University, Iceland.
- University College London, London, U.K.
- University of Birmingham, U.K.
- University of Cambridge, U.K.
- University of Manchester, U.K.
- Department of Computer Science, Indiana University, Bloomington, Indiana, U.S.A.

7.4 Publications

Books

[B1] Luca Viganò. *Labelled Non-Classical Logics.* Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.

Journal Papers

[J40] Giampaolo Bella, Jacques Ophoff, Karen Renaud, Diego Sempreboni, Luca Viganò, Perceptions of beauty in security ceremonies. *Philosophy & Technology* 35, 72, 2022.

[J39] Diego Sempreboni, Luca Viganò. A Mutation-Based Approach for the Formal and Automated Analysis of Security Ceremonies. *Journal of Computer Security* 31 (4):293–364, 2023.

[J38] Jaime Ramos, Joao Rasga, Cristina Sernadas, Luca Viganò. Event-Based Time-Stamped Claim Logic. *Journal of Logical and Algebraic Methods in Programming* 121, 100684, 2021.

[J37] Matteo Zavatteri, Carlo Combi, Luca Viganò. Resource Controllability of Business Processes Under Conditional Uncertainty. *Journal of Data Semantics*, 10(1):19–39, 2021.

[J36] Matteo Zavatteri, Carlo Combi, Romeo Rizzi, Luca Viganò. Consistency checking of STNs with decisions: Managing temporal and access-control constraints in a seamless way. *Information and Computation*, 280:104637, 2021,

[J35] Joao Rasga, Cristina Sernadas Erisa Karafili, Luca Viganò. Time-Stamped Claim Logic. *Logic Journal of the IGPL*, 29(3):303–332, 2021.

[J34] Giada Sciarretta, Roberto Carbone, Silvio Ranise, Luca Viganò. Formal Analysis of Mobile Multi-Factor Authentication with Single Sign-On Login. *ACM Transactions on Privacy and Security (TOPS)*, 23(3): 13:1–13:37, 2020.

[J33] Federico De Meo, Luca Viganò. A Formal and Automated Approach to Exploiting Multi-Stage Attacks of Web Applications. *Journal of Computer Security*, 28(5):525-576, 2020.

[J32] Ruggero Lanotte, Massimo Merro, Andrei Munteanu, Luca Viganò. A Formal Approach to Physics-Based Attacks in Cyber-Physical Systems. *ACM Transactions on Privacy and Security (TOPS)* 23(1):1–41, 2020.

[J31] Matteo Zavatteri, Luca Viganò. Last man standing: Static, decremental and dynamic resiliency via controller synthesis. *Journal of Computer Security* 27(3):343–373, 2019.

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