

# Carlos H. Gañán

Assistant professor

## areas of expertise

Cybersecurity  
Information security  
Econometric modelling  
Data mining/cleaning  
Visual analytics  
Machine learning  
Internet governance

## languages

Spanish ●●●●●  
Catalan ●●●●●  
English ●●●●○  
German ●○○○○

## programming

Shell scripting  
Java, C++, Python  
ns3 & OMNeT++  
R, Matlab, SQL, Python  
L<sup>A</sup>T<sub>E</sub>X

## personal details

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DOB: 25/10/1984

Nationality: Spanish

## education

- 2009–2013 **Ph.D.** in Information Security (*cum laude*) Technical University of Catalonia
- Research areas: cybersecurity, networking, decision making, statistical modelling, data mining, economics of technology.
  - Dissertation title: *Certificate Status Information Dissemination and Validation for VANETs*
  - Advisor: Prof. José Muñoz Tapia
- 2010–2011 **Master** of Business Administration (*120 ECTS*) Open University of Catalonia
- Course topics: Econometrics, micro and macroeconomics, risk management, decision making, systems and operations management and strategic management and leadership.
- 2008–2010 **Bachelor** of Business Studies (*180 ECTS*) Open University of Catalonia
- Course topics: applied mathematics for business, principles of governance, principles of management, introduction to public administration.
- 2008–2009 **Master** in Telematics (*120 ECTS*) Technical University of Catalonia
- Research areas: networks, quality of service, computational technologies.
  - Dissertation title: *Scalable Multi-Source Video Streaming Application over Peer-to-Peer Networks*
  - Advisor: Prof. Jorge Mata
- 2002–2008 **Master** in Telecommunications (*300 ECTS*) Technical University of Catalonia
- Research areas: data mining, wireless sensor networks, energy management.
  - Dissertation title: *Energy Management Architecture for Wireless Sensor Networks*
  - Advisor: Thomas Falck

## experience

- 2016–now **Delft University of Technology** Delft, Netherlands  
*Assistant Professor*  
Teaching at the Faculty of Technology, Policy and Management at the department of Multi-Actors systems. Main topics:
- Decision making;
  - Internet governance;
  - Risk management;
  - Mathematical modelling;
  - Big data analytics;
  - Economics of cybersecurity.
- 2016–now **Universitat Oberta de Catalunya** Barcelona, Catalonia  
*Course Instructor*  
Associate professor on Fundamentals of data science, Supervising master thesis project within the Interuniversity Master's Degree in Security of Information Technologies and Telecommunications. Main topics:
- Internet of Things security;
  - authentication mechanisms;
  - information security.
- 2014–20116 **Delft University of Technology** Delft, Netherlands  
*Post-doctoral Researcher*  
Research on various aspects related to Internet governance:
- Identifying incentives and striking the right balance between cooperative and regulatory approaches to information sharing;
  - Analyzing behavioral aspects of security and privacy;
  - Investigating opportunities and risks of information security markets;
  - Developing and analyzing economic models to quantify the economic impact of cybercrime;
  - Studying the incentives structures of different Internet intermediaries to cooperate in combating each cybercrime type;
  - Increasing the impact of voluntary action against cybercrime.
- 2009–2013 **Universitat Politècnica de Catalunya** Barcelona, Spain  
*Junior Researcher*  
Research on various aspects related to information security in wireless mobile networks (VANET and MANET). Detailed achievements:
- Analyzing the cost of security both in terms of quality of service and user experience in vehicular networks;
  - Enhancing privacy of security protocols for mobile networks;
  - Modeling cybersecurity datasets to estimate and forecast the security level of different services;
  - Estimation of risk metrics based on security datasets.
- 2012–2012 **Middlesex University** London, United Kingdom  
*Visiting researcher*  
Carried out research on enhancing quality of service support capability of short range communications among vehicles. Detailed achievements:
- Simulation of vehicular networks in complex urban scenarios;
  - Analysis of the trade-off between secure communication and network usability.
  - Analysis of authenticated data structures to support the security services in vehicular networks.

2008-2009	<b>Universitat Politècnica de Catalunya</b> <i>Research assistant/technician</i> Performing initial research on events detected by automation systems to assess impact, understand significance and categorize incidents. Recommending appropriate network addressing systems, appropriate layouts for various network configurations, and appropriate connection devices.	Barcelona, Spain
2007-2008	<b>Philips Research</b> <i>Intern Researcher</i> Detailed achievements: <ul style="list-style-type: none"> <li>• Use of machine learning techniques to analyze and extract patterns of vital signs data;</li> <li>• Design of a time series model to reduce energy consumption on medical applications for wireless sensor networks;</li> </ul>	Aachen, Germany
2007-2007	<b>Hewlett Packard</b> <i>Intern Researcher</i> Detailed achievements: <ul style="list-style-type: none"> <li>• Firmware design and optimization for large format printers;</li> <li>• Testing and design of paper and ink products.</li> </ul>	Barcelona, Spain

## awards

2016-2017	<b>Postdoctoral grant Beatriu de Pinós</b> Prestigious scholarship with around 11% acceptance rate. Awarded by the Catalan Agency for Management of University and Research Grants.	70k€
2015	<b>Best dissertation award on ICT</b> Awarded with the prestigious prize for the most outstanding doctoral thesis on the ICT field.	
2011-2013	<b>FPU Postgraduate Scholarship</b> Prestigious scholarship with around 5% acceptance rate. Awarded by the Secretary of Universities and Research of the Spanish government.	65k€
2009-2011	<b>FPI-UPC Research Scholarship</b> Awarded by the Catalan Agency for Management of University and Research Grants.	30k€

## participation in Research Projects

2015-2018	<b>Researcher</b> Increasing the impact of voluntary action against cybercrime	Department of Homeland Security & Netherlands Organisation for Research
2014-2017	<b>Work Package Leader</b> E-CRIME (the economic impacts of cyber crime) FP7 Project	European Union's Seventh Framework Programme
2012-2014	<b>Researcher</b> SERVET (A SEcure and Robust transport architecture for infotainment services in Vehicular nETworks) project	Spanish Ministry of Science and Education
2009-2014	<b>Associate Researcher</b> Action IC0906: Wireless Networking for Moving Objects (WiNeMO)	European Science Foundation
2008-2013	<b>Work Package Leader</b> ARES Project (Advanced Research on Information Security and Privacy)	Ingenio Program 2010
2007-2009	<b>Intern</b> BASUMA (Body Area System for Ubiquitous Multimedia Applications)	German Federal Ministry for economics and labor

## publications

### articles in peer-reviewed journals

- Rotten Apples or bad harvest? What we are measuring when we are measuring abuse  
Tajalizadehkhoob, Samaneh, Rainer Böhme, Carlos Gañán, Maciej Korczyński, and Michel Van Eeten  
ACM Transactions on Internet Technology (TOIT) 18.4 (2018) p. 49. ACM, 2018
- Towards a new cyber threat actor typology  
Bruijne, Mark de, Michel van Eeten, Carlos Hernández Gañán, and Wolter Pieters  
WODC (Research and Documentation Centre) (2017). 2017
- Abuse Reporting and the Fight Against Cybercrime  
Jhaveri, Mohammad Hanif, Orcun Cetin, Carlos Gañán, Tyler Moore, and Michel Van Eeten  
ACM Comput. Surv. 49.4 (Jan. 2017) 68:1–68:27. ACM, 2017
- Understanding the role of sender reputation in abuse reporting and cleanup  
Cetin, Orcun, Mohammad Hanif Jhaveri, Carlos Gañán, Michel van Eeten, and Tyler Moore  
Journal of Cybersecurity 2.1 (2016) p. 83. 2016
- A model for revocation forecasting in public-key infrastructures  
Gañán, Carlos, Jorge Mata-Díaz, Jose L. Muñoz, Oscar Esparza, and Juanjo Alins  
Knowl. Inf. Syst. 43.2 (2015) pp. 311–331. 2015, IF: 2.639
- Certificate Revocation List Distribution System for the KAD Network  
Caubet, Juan, Carlos Gañán, Oscar Esparza, Jose Muñoz, Jorge Mata, and Juanjo Alins  
Comput. J. 57.2 (2014) pp. 273–280. 2014, IF: 0.888
- EPA: An efficient and privacy-aware revocation mechanism for vehicular ad hoc networks  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, and Juanjo Alins  
Pervasive and Mobile Computing (2014) pp. 1–17. 2014, IF: 2.079
- VESPA: Emulating Infotainment Applications in Vehicular Networks  
Rene, Sergi, Juanjo Alins, Jorge Mata, Carlos Gañán, Jose Muñoz, and Oscar Esparza  
IEEE Pervasive Computing 13.3 (2014) pp. 58–66. 2014, IF: 2.103
- BECSI: Bandwidth efficient certificate status information distribution mechanism for VANETs  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jonathan Loo, Jorge Mata-Díaz, and Juanjo Alins  
Mobile Information Systems (2013) pp. 1–31. 2013, IF: 1.789
- PPREM: Privacy Preserving REvocation Mechanism for Vehicular Ad Hoc Networks  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, and Juanjo Alins  
Computer Standards & Interfaces (Aug. 2013) pp. 1–12. Elsevier B.V., 2013, IF: 1.177
- COACH: COllaborative certificate stAtus CHecking mechanism for VANETs  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, Juan Hernández, and Juanjo Alins  
Journal of Network and Computer Applications 36.5 (Sept. 2013) pp. 1337–1351. 2013, IF: 1.772
- A Modeling of Certificate Revocation and Its Application to Synthesis of Revocation Traces  
Gañán, Carlos, Jorge Mata-Díaz, Jose L. Muñoz, Juan Hernández, Oscar Esparza, and Juanjo Alins  
IEEE Transactions on Information Forensics and Security 7.6 (Dec. 2012) pp. 1673–1686. 2012, IF: 1.895
- Risk-based decision making for Public Key Infrastructure using fuzzy logic  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, and Juanjo Alins  
International Journal of Innovative Computing, Information and Control (IJICIC) 8.11 (2012) pp. 7925–7942. 2012, IF: 1.667
- Low-cost group rekeying for unattended wireless sensor networks  
Hernández, Juan, Juan Vera-del-Campo, Josep Peguerols, and Carlos Gañán  
Wireless Networks 19 (May 2012) pp. 47–67. 2012, IF: 1.055

## international peer-reviewed conferences/proceedings

Cleaning Up the Internet of Evil Things: Real-World Evidence on ISP and Consumer Efforts to Remove Mirai

Cetin, Orçun, Carlos Gañán, Lisette Altena, Takahiro Kasama, Daisuke Inoue, Kazuki Tamaya, Ying Tie, Katsunari Yoshioka, and Michel Van Eeten

Network and Distributed System Security Symposium (NDSS), 2019

Tell Me You Fixed It: Evaluating Vulnerability Notifications via Quarantine Networks.

Cetin, Orcun, Carlos Gañán, Lisette Altena, Samaneh Tajalizadehkhoob, and Michel van Eeten

Euro Security & Privacy 2019, 2019

Detect Me If You... Oh Wait. An Internet-Wide View of Self-Revealing Honeypots

Morishita, Shun, Takuya Hoizumi, Wataru Ueno, Rui Tanabe, Carlos Gañán, Michel van Eeten, Katsunari Yoshioka, and Tsutomu Matsumoto

IFIP/IEEE International Symposium on Integrated Network Management, IM 2019, Washington, DC, USA, April 09-11, 2019. 2019

MalPaCA: Malware Packet Sequence Clustering and Analysis

Nadeem, Azqa, Christian Hammerschmidt, Carlos H Gañán, and Sicco Verwer

arXiv preprint arXiv:1904.01371, 2019

Let Me Out! Evaluating the Effectiveness of Quarantining Compromised Users in Walled Gardens

Çetin, Orçun, Lisette Altena, Carlos Gañán, and Michel van Eeten

Fourteenth Symposium on Usable Privacy and Security (SOUPS 2018), 2018

Plug and prey? measuring the commoditization of cybercrime via online anonymous markets

Van Wegberg, Rolf, Samaneh Tajalizadehkhoob, Kyle Soska, Ugur Akyazi, Carlos Hernandez Ganan, Bram Klievink, Nicolas Christin, and Michel Van Eeten

27th USENIX Security Symposium (USENIX Security 18), 2018

Make notifications great again: learning how to notify in the age of large-scale vulnerability scanning

Cetin, Orcun, Carlos Ganán, Maciej Korczynski, and Michel van Eeten

16th Workshop on the Economics of Information Security (WEIS 2017), 2017

Partial Device Fingerprints

Ciere, Michael, Carlos Gañán, and Michel van Eeten

Joint European Conference on Machine Learning and Knowledge Discovery in Databases, 2017

Beyond the pretty penny: the Economic Impact of Cybercrime

Gañán, Carlos, Michael Ciere, and Michel van Eeten

Proceedings of the 2017 New Security Paradigms Workshop on ZZZ, 2017

The Role of Hosting Providers in Fighting Command and Control Infrastructure of Financial Malware

Tajalizadehkhoob, Samaneh, Carlos Gañán, Arman Noroozian, and Michel van Eeten

Proceedings of the 2017 ACM on Asia Conference on Computer and Communications Security, 2017

Risk Management for Third Party Payment Networks

Driel, Willem van, Carlos Gañán, Michael Lobbezoo, Michel van Eeten, and Tyler Moore

15th Annual Workshop on Economics of Information Security (WEIS) 2016, 2016, hi5: 26

Who gets the boot? Analyzing victimization by DDoS-as-a-service

Noroozian, Arman, Maciej Korczyński, Carlos Gañán, Daisuke Makita, Katsunari Yoshioka, and Michel van Eeten

International Symposium on Research in Attacks, Intrusions, and Defenses, 2016

Estimating the costs of consumer-facing cybercrime: A tailored instrument and representative data for six EU countries

Riek, Markus, Rainer Böhme, Michael Ciere, Carlos Gañán, Michel van Eeten, and Tyler Moore

- 15th Annual Workshop on Economics of Information Security (WEIS) 2016, 2016
- Apples, Oranges and Hosting Providers: Heterogeneity and Security in the Hosting Market  
Tajalizadehkhoob, Samaneh, Maciej Korczyński, Arman Noroozian, Carlos Gañán, and Michel van Eeten  
IEEE/IFIP Network Operations and Management Symposium, NOMS 2016, 2016, hi5: 22
- Understanding the Role of Sender Reputation in Abuse Reporting and Cleanup  
Cetin, Orcun, Mohammad Hanif Jhaveri, Carlos Gañán, Michel van Eeten, and Tyler Moore  
14th Annual Workshop on Economics of Information Security (WEIS) 2015, 2015, hi5: 26
- An empirical analysis of ZeuS C&C lifetime  
Gañán, Carlos, Orcun Cetin, and Michel van Eeten  
10th ACM Symposium on Information, Computer and Communications Security, 2015, Singapore, hi5: 32
- How Dynamic is the ISPs Address Space? Towards Internet-Wide DHCP Churn Estimation  
Moura, Giovane, Carlos Gañán, Qasim Lone, Payam Poursaied, Hadi Asghari, and Michel van Eeten  
14th IFIP Networking Conference, 2015, Toulouse, France, hi5: 22
- Why Them? Extracting Intelligence about Target Selection from Zeus Financial Malware  
Tajalizadehkhoob, Samaneh, Hadi Asghari, Carlos Gañán, and Michel van Eeten  
13th Annual Workshop on Economics of Information Security (WEIS) 2014, 2014, hi5: 26
- Secure Handoffs for V2I Communications in 802.11 Networks  
Gañán, Carlos, Sergi Reñé, Jose Muñoz, Oscar Esparza, Jorge Mata, and Juanjo Alins  
10th ACM symposium on Performance evaluation of WSN, 2013, Barcelona, Spain, hi5: 21
- Analysis of Inter-RSU Beaconing Interference in VANETs  
Gañán, Carlos, Jonathan Loo, Arindam Ghosh, Oscar Esparza, Sergi Reñé, and Jose L. Muñoz  
Multiple Access Communications, 2012, Dublin, Ireland, hi5: 13
- On the Self-similarity Nature of the Revocation Data  
Gañán, Carlos, Jorge Mata-Díaz, Jose L. Muñoz, Oscar Esparza, and Juanjo Alins  
Information Security, 2012, Passau, Germany, hi5: 35
- Impact of the Revocation Service in PKI Prices  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, and Juanjo Alins  
Information and Communications Security, 2012, Hong Kong, hi5: 33
- Toward Revocation Data Handling Efficiency in VANETs  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, and Juanjo Alins  
Communication Technologies for Vehicles, 2012, Vilnius, Lithuania, hi5: 16
- RAR: Risk Aware Revocation Mechanism for Vehicular Networks  
Gañán, Carlos, Jose L. Muñoz, Oscar Esparza, Jorge Mata-Díaz, Juanjo Alins, Carlos Silva-Cardenas, and Gumerindo Bartra-Gardini  
2012 IEEE 75th Vehicular Technology Conference (VTC Spring), 2012, Yokohama, Japan, hi5: 90
- NeuroCast: Adaptive Multi-source P2P Video Streaming Application for Wireless Networks  
Gañán, Carlos, Juan Caubet, Sergi Reñé, Jorge Mata-Díaz, Juanjo Alins, and Óscar Esparza  
Wired/Wireless Internet Communications, 2011, Vilanova i la Geltrú, Spain, hi5: 15
- Analysis of Video Streaming Performance in Vehicular Networks  
Reñé, Sergi, Carlos Gañán, Juan Caubet, Juanjo Alins, Jorge Mata-Díaz, and Jose L. Muñoz  
INFOCOMP, 2011, Sant Joan d'Espí, Spain, hi5: 5
- PKIX Certificate Status in Hybrid MANETs  
Muñoz, Jose L., Oscar Esparza, Carlos Gañán, and Javier Parra-Arnau  
Ifip International Federation For Information Processing, 2009, Brussels, Belgium, hi5: 14

## local peer-reviewed conferences/proceedings

CRL Issuing Mechanism for the KAD Network

Caubet, Juan, Carlos Gañán, Oscar Esparza, and Jose L. Muñoz

Jitel 2013 - IX Jornadas de Ingeniería Telemática, 2013

Impacto de las unidades a pie de carretera en las interferencias en redes vehiculares

Gañán, Carlos, Sergi Reñé, Jorge Mata-Díaz, and Juanjo Alins

Jitel 2013 - IX Jornadas de Ingeniería Telemática, 2013

Estructuras de datos autenticadas para gestionar datos de revocación en VANETs

Gañán, Carlos, Jose L. Muñoz, M. F. Hinarejos, A. Isern, and Juanjo Alins

RECSI 2012 - XII Reunión Española sobre Criptología y Seguridad de la Información, 2012

Gestión del riesgo inherente en la revocación de certificados de redes vehiculares

Gañán, Carlos, Jose L. Muñoz, M. F. Hinarejos, A. Isern, and Juanjo Alins

RECSI 2012 - XII Reunión Española sobre Criptología y Seguridad de la Información, 2012

Un Esquema de Pago Seguro mediante Multicupones para Escenarios Multi-Comerciante

Isern, A., M. F. Hinarejos, J. Ferrer, M. Palleras, Carlos Gañán, J. L. Muñoz, Jordi Forné, and Oscar Esparza

RECSI 2012 - XII Reunión Española sobre Criptología y Seguridad de la Información, 2012

Aplicación adaptativa multi-fuente para streaming de vídeo en redes P2P inalámbricas

Caubet, Juan, Carlos Gañán, Sergi Reñé, Juanjo Alins, and Jorge Mata-Díaz

Jitel 2011 - VIII Jornadas de Ingeniería Telemática, 2011

Mecanismo para evitar ataques por confabulación basados en code passing

Jáimez, Marc, Oscar Esparza, Carlos Gañán, and Jarvier Parra-Arnau

Jitel 2009 - VII Jornadas de Ingeniería Telemática, 2009

Nuevo criterio para la estimación de información de estado de certificados en MANET

Muñoz, Jose L., Jarvier Parra-Arnau, Carlos Gañán, and Marc Jáimez

Jitel 2009 - VII Jornadas de Ingeniería Telemática, 2009

## book chapters

Muñoz, Jose L., Oscar Esparza, Carlos Gañán, Jorge Mata-Díaz, Juanjo Alins, and Ivan Ganchev.

“MHT-Based Mechanism for Certificate Revocation in VANETs”. English. In: Wireless Networking for Moving Objects. Ed. by Ivan Ganchev, Marília Curado, and Andreas Kassler. Vol. 8611. Lecture Notes in Computer Science. Springer International Publishing, 2014, pp. 282–300. ISBN: 978-3-319-10833-9.

## thesis

Certificate Status Information Distribution and Validation in vehicular networks

Gañán, Carlos, Doctoral Dissertation, Univesitat Politècnica de Catalunya, 2013

Scalable Multi-Sourcer Video Streaming Application over P2P networks

Gañán, Carlos, Master's Thesis, Univesitat Politècnica de Catalunya, Sept. 2009

Energy Management Architecture for Wireless Sensor Networks

Gañán, Carlos, Master's Thesis, Koninklijke Philips Electronics, Mar. 2008

## teaching experience

2017-now	<b>Organization and Management, Decision making</b> <i>Course manager and Lecturer</i> M.Sc. course, (3 ECTS; +/- 20 students)	Delft University of Technology
2016-now	<b>Mathematical models and society</b> <i>Course manager and Lecturer</i> M.Sc. course, (3 ECTS; +/- 90 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Lecturing the whole course;</li> <li>• Coordinating with the other co-lecturers;</li> <li>• Grading and giving feedback to the students.</li> </ul>	Delft University of Technology
2016-now	<b>Cyber Security Economics</b> <i>Course manager and Lecturer</i> MSc Level (+/- 3,000 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Teaching, managing and developing course contents;</li> <li>• Producing video lectures;</li> <li>• Assisting other partner institutions (Cambridge, Muenster and Southern Methodist University) with the development of the video lectures;</li> <li>• Coordinating with the student assistants;</li> <li>• Acting as first point of contact with the course participants.</li> </ul>	Massive Open Online Course
2015-now	<b>Cyber Security: Economics and Insurance</b> <i>Course manager and Lecturer</i> M.Sc. course, (5 ECTS; +/- 20 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Course content development;</li> <li>• Lecturing the whole course;</li> <li>• Preparing the assignments;</li> <li>• Grading and giving feedback to the students.</li> </ul>	Leiden University
2015-2016	<b>Economics of Security</b> <i>Course manager and Lecturer</i> M.Sc. course, (5 ECTS; +/- 40 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Course content development;</li> <li>• Integrating the course materials in an instructional online platform to enhance pedagogical technique;</li> <li>• Planning lessons and assignments;</li> <li>• Design of the course data analytics projects;</li> <li>• Leading group discussions and graded their assignments.</li> </ul>	3TU Master (TU Delft, Twente University)
2015	<b>Economics of Cybersecurity</b> <i>Course manager and Lecturer</i> MSc/PhD-level (+/- 400 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Teaching, managing and developing course contents;</li> <li>• Producing video lectures;</li> <li>• Assisting other partner institutions (Cambridge, Muenster and Southern Methodist University) with the development of the video lectures;</li> <li>• Coordinating the course with edX and TU Delft's extension school;</li> <li>• Acting as first point of contact with the course participants.</li> </ul>	Professional Online Education Course



2012-2013	<b>Internet Transport, Control and Management</b> <i>Assistant Lecturer</i> B.Sc. level, (+/- 100 students) <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Developing part of the course materials;</li> <li>• Teaching on campus master classes;</li> <li>• Conducting laboratory sessions;</li> <li>• Planning all assignments and in-class exercises;</li> <li>• Managing student concerns, grading exams, holding office hours and extra review sessions.</li> </ul>	Technical University of Catalonia
2012-2013	<b>Linux Networks</b> <i>Lecturer</i> M.Sc. level, (+/- 40 students). <i>Responsibilities:</i> <ul style="list-style-type: none"> <li>• Helping create curriculum;</li> <li>• Composing exams and assignments;</li> <li>• Leading weekly discussion sessions;</li> <li>• Grading all written work and determining final grades.</li> </ul>	Technical University of Catalonia

## professional activities

### Reviewer

- Journal of Information Policy
- IEEE Transactions on Information Forensics and Security- Journal
- Computer Communications - Journal - Elsevier
- Ad Hoc Networks - Journal - Elsevier
- Journal of Network and Computer Applications - Elsevier
- IET Information Security - Journal
- IEEE Vehicular Technology Conference
- IEEE Transactions on Mobile Computing - Journal

### Program committee

- International Workshop on Traffic Measurements for Cybersecurity 2016, 2017, 2018
- IEEE Globecom 2015 – Security Symposium
- ACM AsiaCCS 2016 – Workshop on Traffic Measurements for Cybersecurity
- ComTel 2012,2013,2014,2015,2016,2017,2018 – International Congress on computing and telecommunications

### Organizer

- Workshop on the Economics of Information Security (WEIS) 2015
- International Conference on Information and Communications (ICICS) 2010