

## EDUARD FOSCH VILLARONGA

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Researcher

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### **EDUCATION AND RESEARCH**

#### **Law, Governance and Technology Department at the University of Twente, Enschede, the Netherlands**

- Researcher with Prof. Michiel Heldeweg

Project: Exploring RegTech-modes in responsible development and use of robotics

#### **Berkman Center for Internet and Society at Harvard University, Cambridge, MA, US.**

- Study Group on Law and Regulation of Emerging Robotics and Automation Technologies

#### **Laboratoire de Systèmes Robotiques, École Polytechnique Fédérale de Lausanne, Switzerland**

- Visiting scholar with Prof. Dr. Mohamed Bouri, February 2016.

Project: The Use of Exoskeletons and Orthotic Actuated Devices for Activities of the Daily Living

#### **Center for Education Engineering and Outreach (CEEEO), Tufts University, Medford, MA, US**

- Visiting scholar with Prof. Dr. Jordi Albo-Canals, Summer 2015.

Project: Data Analysis and Collection through Robotic Companions and LEGO Engineering - with Children on the Autism Spectrum.

#### **Summer School in Medical and Service Robotics, EPFL, Lausanne, Switzerland**

- Within the 3<sup>rd</sup> International Workshop on Medical and Service Robotics, July, 2014.

#### **CIRSFID, University of Bologna, Italy**

- Ph.D. Candidate at the Erasmus Mundus International Doctorate (Ph.D.) Degree in Law, Science and Technology, Sept. 2013 – Present. The mobility plan includes Università di Bologna (Italy); Università di Torino (Italy); Mykolo Romerio Universitetas (Vilnius, Lithuania); CELLS Leibniz Universität (Germany); Universitat Autònoma de Barcelona (Spain) and the University of Pittsburgh School of Law (U.S.)

Thesis: Legal and Ethical Framework for Personal Care Robots.

#### **Autonomous University of Madrid, Spain**

- MA in Security, Governance and IT Law, 2012-2013.

Master Thesis: Check Out the Cloud. Creation of a Spanish Framework in order to Manage the Risks Posed by the Migration to the Cloud

#### **Université Capitole I – Toulouse, France**

- Master en Droit, Economie, Gestion. Mention Droit International Européen et Comparé. Spécialité Droit Européen, 2011-2012

Master Thesis: Datum et Progresus. The e-European Constitutional Reality and the Da-Pro Privacy Right

#### **Autonomous University of Barcelona, Spain**

- LL.M in European Integration, 2011-2012. Shared thesis with Toulouse, France.
- Bachelor of Laws, 2007-2011
- Collaboration with the Ecclesiastical Law Department with Prof. Dr. Ivan Jimenez-Aybar

Project 1: Dictum on the deeply hold of the Church of Scientology in Spain. 2010-2011.

Project 2: Polygamy in Spanish Territory. Administrations Involved. December 2011.

Project 3: Dictum on the Liability of the Administration in front the Denial of Bloodless Surgery to Members of the Religious Order of Jehovah's Witnesses in Spain. 2012.

## **PUBLICATIONS**

1. **Fosch Villaronga, E.**, and Albo-Canals, J. (2016). Regulatory Framework for a Cloud-Based Architecture that Supports a Lego® Play-Based Robot-Mediated Therapy for Children with ASD. Available at SSRN. Poster at WeRobot 2016, Miami, FL, US.
2. **Villaronga, E. F.** (2016). ISO 13482: 2014 and Its Confusing Categories. Building a Bridge Between Law and Robotics. In *New Trends in Medical and Service Robots*, pp. 31-44. Springer International Publishing.
3. **Fosch-Villaronga, E.** (2015) Creation of a Care Robot Impact Assessment. *WASET, International Science Journal of Social, Behavioral, Educational, Economic and Management Engineering*, 9(6), pp. 1817 - 1821.
4. **Villaronga, E. F.** (2015). Legal and regulatory challenges for physical assistant robots. In *eChallenges e-2015 Conference*, IEEE, pp. 1-8.
5. **Fosch-Villaronga, E.** and Albo-Canals, J. (2015) Boundaries in Play-based Cloud-companion-mediated Robotic Therapies: From Deception to Privacy Concerns. *Conference Proceedings. NewFriends 2015*, pp. 40-41.
6. **Fosch-Villaronga, E.** (2015) Principles Involved in Care Robotics Legal Compliance. *Workshop Proceedings. NewFriends 2015*, pp. 76-77.

Accepted but not published yet:

7. **Fosch-Villaronga, E.** (2016) Personal Care Robots: between Social and Non-Social Robots". Book Chapter in P. Casanovas and J.J. Moreso (Eds) *Anchoring Institutions*. Springer Verlag.
8. **Fosch-Villaronga, E.** and Virk, G. S. (2016) Legal Issues for Mobile Servant Robots. *RAAD'16*.
9. **Fosch-Villaronga, E.** (2016) Legal Frame for Non-Social Robots. *MESROB'16*
10. **Fosch-Villaronga, E.**; Barco, A.; Özcan, B.; Shukla, J. (2016) An Interdisciplinary Approach towards a Better Cognitive Human-Robot Interaction – A Novel Emotion-Based Model. *Robo-Philosophy'16*.
11. **Fosch-Villaronga, E.** and Kalipalya-Mruthyunjaya, V. (2016) Robot Enhancement of Cognitive and Ethical Capabilities of Humans. *Robo-Philosophy'16*
12. **Fosch-Villaronga, E.** and Ienca, M. (2016) Assessing the Impact of Neurotechnology on the Legal System. Poster at the International Neuroethics Society Annual Meeting, San Diego, CA, US.

Under review:

13. Ienca M. and **Fosch-Villaronga, E.** Privacy and Security Issues in Assistive Technologies for Dementia. In: Jotterand, F. et al. *Assistive Technologies for Dementia*. Oxford University Press.
14. **Fosch-Villaronga, E.** and Albo-Canals, J. Cloud-Robotics-Based ASD Research and the Google's US 8,996,429 B1 Patent: Personality and Behavior.
15. **Fosch-Villaronga, E.** and Roig-Batalla, A. Regulatory Framework for Person Carrier Robots. Submitted to the *International Journal on Social Robotics*.
16. **Fosch-Villaronga, E.** and Albo-Canals, J. Boundaries in Played-Based Cloud-Companion-Mediated Robotic Therapies: From Deception to Privacy Concerns. Submitted to the *International Journal of Social Robotics*.

## **ORAL COMMUNICATIONS**

1. (2016) JSAI-isAI International Symposia on AI, Yokohama, Japan.
2. (2016) New Friends 2016. International Conference on Social Robotics in Education and Therapy, Barcelona.
3. (2016) Robo-Philosophy, Aarhus, Denmark.
4. (2016) MESROB'16: 5<sup>th</sup> International Workshop on Medical and Service Robots, Graz, Austria
5. (2016) RAAD 2016: IFTOMM/IEEE/EuRobotics 25<sup>th</sup> International Conference on Robotics in Alpe-Adria-Danube Region
6. (2016) WeRobot 2016, Miami, FL, US, 30 March-2 April. Poster Session.
7. (2015) European Commission and IEEE e-Challenges2015. Vilnius, Lithuania. 25-27 November 2015
8. (2015) New Friends 2015: 1<sup>st</sup> International Conference on Social Robotics in Education and Therapy. Almere, the Netherlands. 22-23 October 2015.

9. (2015) MESROB'15: 4<sup>th</sup> International Workshop on Medical and Service Robots. Nantes, France.
10. (2015) ICSR 2015: 17<sup>th</sup> International Conference on Social Robotics. New York, NY, US. 4-5 June 2015

## **HONORS**

- EACEA Erasmus Mundus Joint Doctorate Full Scholarship
- Concerning LL.B., Honors in Philosophy of Law, Ecclesiastical Law, Tax Law and History of Modern Legal Culture. Concerning LL.M., Dimension of the EU External Action, Competition and Regulation.
- Second Award (out of 450 participants) in “Programa Argó”, Universitat Autònoma de Barcelona, 2007, for my High School Dissertation: The Marriage of Convenience within the Frame of the Current Legislation. The Possible Fraud. Value: 1.000€.
- High School with Honors. Government of Catalonia, 2007. Value: Free University Fee.
- ORATOR (OCECI) Scholarship, 2007. Value: Study English in the U.K. during that summer.

## **INVITATIONS**

- (2016) Invited Speaker, Fordham Law School, New York, NY, US.
- (2016) Guest Lecturer at the Research Philosophy Discussion Series, The Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, US.
- (2016) Invited speaker, Malle Lab, Brown University, RI, US.
- (2016) Guest Lecturer at the course “Health Innovation – An Interdisciplinary Approach” at the European Institute of Innovation and Technology (EIT) Health Education at Uppsala University, Stockholm, Sweden. February 2016.
- (2016) Visiting scholar at the Laboratoire de Systèmes Robotiques in École Polytechnique Fédérale de Lausanne, Switzerland. February 2016.
- (2015) Visiting scholar at Center for Education Engineering and Outreach (CEEEO) Tufts University, MA, US, Summer 2015.

## **LANGUAGES**

- Catalan / Spanish, native.
- English / French / Italian, full professional proficiency.
- German, limited working proficiency.
- Portuguese / Lithuanian, very elementary proficiency.

## **OTHERS**

- (2016) Presentation of my research at University of Pittsburgh School of Law with professors from Carnegie Mellon University.
- (2016) Co-organizer of the parallel workshop on the ELS of Social Robots in Therapy and Education Workshop ([legalspectsofsocialrobots.wordpress.com](http://legalspectsofsocialrobots.wordpress.com)) that will be run between Barcelona, Spain ([newfriends2016.org](http://newfriends2016.org)) and Yokohoma, Japan ([www.ai-gakkai.or.jp/isai/](http://www.ai-gakkai.or.jp/isai/)) in November.
- (2016) Research associate at the RoboLaw Asia Initiative ([www.robolaw.asia](http://www.robolaw.asia)).
- (2015) Co-organizer of the “Bridging the Gaps between Different Worlds. A Legal and Ethical Approach towards Assistive Robots: Risks and Solutions” Workshop at New Friends2015.org, Almere, The Netherlands
- Reviewer at the IJSR Journal, NewFriends, RAAD, IROS.
- Member of Responsible Robotics.

## **PROFESSIONAL EXPERIENCE PRIOR RESEARCH**

- (2013) AUREN Barcelona, Spain. Junior Consultant at IT Risks Department – Data Protection Lawyer.
- (2012) SES English School. Cerdanyola, Barcelona, Spain. Teacher.
- (2008-2011). THAMES, School of Languages, Cerdanyola, Barcelona, Spain. English Teacher.

- (2011, summer) CORE SOLUTIONS Consulting Firm. Sant Cugat, Barcelona, Spain. Internship in Public Administrative and Urbanism Law.
- (2009, summer) M&M Consulting. Law Firm. Sabadell, Barcelona, Spain. Commercial Law.
- (2008, summer) HILFIGER, Factory Outlet Store. La Roca Village, Barcelona, Spain. Sales Assistant.
- (2007, winter) BURBERRY, Barcelona, Spain. Sales Assistant.
- (2006, summer) CONDIS S.A. Central Supermarket. Montcada i Reixac, Barcelona, Spain. Administrative Assistant.