

**Nuria Oliver, PhD**  
Scientific Director  
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## Education

**PhD with Honors in Media Arts & Sciences** 2000  
Massachusetts Institute of Technology (MIT)  
Thesis: *"Towards Perceptual Intelligence: Statistical Modeling of Human Individual and Interactive Behaviors"*.  
Thesis Director: Prof. A. Pentland

**Superior Degree in Telecommunications Engineering (6 year degree)** 1994  
**M.Sc./B.Sc. equivalent with Honors in Telecommunications Engineering**  
Universidad Politécnica de Madrid (UPM)  
Majors in: Signal Processing and Telematics  
GPA: 9.2/10.0  
First National Prize of Telecommunications Engineers

## Languages

Spanish (native)

English (bilingual): Superior Title by the Official School of Languages of Spain 1993

French (fluent): Superior Title by the Official School of Languages of Spain 1993

German (high level): ZMP title by the Goethe Institut 1994

Catalan (high level)

Italian (beginner-medium level)

## Additional Studies

Classical Ballet until 6th Year at the Official Conservatory of Music of Alicante 1980-87

Lab instructor of 5 laboratories at the Telecommunications Engineering School 1990-1993

Ballroom dancing studies and participation in the World Salsa Congress (Los Angeles, USA) 1998-2002

Formula Dodge car Racing training at Skip Barber Racing School 1998-2000

Facilitator training by Oxford Leadership Academy for the *Leading Self* course 2013

Studies and practice of of different types of yoga 1999-present

Honorary member of the Official College of Physicians of Alicante 2015

## Professional Experience

**Telefónica I+D, Barcelona, Spain** 2007 – Present  
*Scientific Director*  
Founder of an internationally recognized research team in the areas of mobile and ubiquitous computing, statistical machine learning, recommender systems and personalization, multimedia data analysis, human-computer interaction and Big Data analytics. Co-founder of the research organization within Telefonica R&D

**Microsoft Research, Redmond, WA, USA** 2000 - 2007  
*Researcher* in statistical machine learning, multi-modal user interfaces, intelligent user interfaces, wearable physiological monitoring and mobile computing. Worked with Dr. E. Horvitz and Dr. M. Czerwinski

**Massachusetts Institute of Technology (MIT), Boston, MA, USA** 1995 - 2000  
*Research Assistant* in statistical machine learning, perceptual computing, pattern recognition, perceptual intelligence, computer vision and *wearable computing*. Worked with Prof. A. Pentland (thesis director)

<b>GMD First (hoy Fraunhofer Institute), Berlin, Germany</b> <i>Visiting Researcher</i> Theoretical work with Dr. B. Schölkopf and Dr. A. Smola on kernel methods, regularization theory and information geometry	1999
<b>Telefónica I+D, Madrid, Spain</b> <i>Software Engineer</i> Designed a system for monitoring traffic through telecommunication networks	1994 - 1995
<b>Siemens I+D, Munich, Germany</b> <i>International Student Circle Fellow</i> Parsers, grammars, compiler evaluations and contributions to the EU ESPRIT project called “Benchmarking for embedded control and real-time applications”	1992 y 1993

## Professional Service

**Co-chair:** 11 ACM / IEEE conferences

General Conference: Int. Conf. on User Modeling and Adaptation (UMAP) 2011 (today IEEE UMAP)

Technical Program: ACM International Conference on Intelligent User Interfaces (IUI) 2009; ACM International Conference on Multimedia Information Retrieval (MIR) 2010

Track: ACM Int. Conf. on WWW 2013; ACM Int. Conf. on Multimedia (MM) 2014 ; IEEE Mobile Data Management 2016; ACM Digital Health 2016;

Area: ACM Int. Conf. on Multimodal Interfaces (ICMI) 2012

Industry day: Int Joint Conference on AI (IJCAI) 2011

Doctoral symposium (founder): ACM Int. Conf. on Intelligent User Interfaces (IUI) 2012

Sponsorship: ACM Int. Conf. on Multimodal Interfaces (ICMI) 2011

**Member of the Program Committee** (list only for 2014-2016)

Netmob 2015; UAI 2014-15; AAAI 2014-16; ACM WWW 2014, 2016; ACM IUI 2014-16; IEEE ICASSP 2014; ACM RecSys 2014-15; ACM ICWSM 2014-16; ACM Ubicomp 2014-15; IEEE IWMV 2014; ACM MobileHCI 2015-16; ECML-PKDD 2015; ACM DH 2015; UMAP 2015; UAI 2014-15; IEEE SmartCities 2015

**Member of the Scientific Committee and Editorial Board**

DTIC Department of the Univ Pompeu Fabra (2013-present)

Universidad Oberta Catalunya (UOC) Proyecto Avanza del Instituto Interdisciplinario de Internet (2009)

Member of the Editorial Board of ACM Transactions on Multimedia, TELOS magazine, Frontiers of Digital Health and Foundations and Trends in HCI

Member of the ethics panel of Orange D4D (2015)

Member of Bankinter’s Innovation Foundation Future Trends Forum (2006-present)

Research affiliate at DataPopAlliance (2015)

Member of the PhD thesis committee of Jose Luis Landabaso (UPC’08), Pere Obrador (UPC’11), Juan Pablo Carrascal (UPF’15), Ruth Garcia Gavilanes (UPF’15) y Janette Lehman (UPF’15), among others

## Best Paper Awards and Nominations

“*LAFTER: A Real-time Face and Lips Tracker with Facial Expression Recognition*” **Oliver, N.**, Pentland, A. and Berard, F. Pattern Recognition 33 (8), 1369-1382 **Winner of the Special Mention Award from the Pattern Recognition Society as an Outstanding Publication** 2000

“*CLiMF: Learning to Maximize Reciprocal Rank with Collaborative Less-is-more Filtering*” Shi, Y., Karatzoglou, A., Baltrunas, L., Larson, M., **Oliver, N.** and Hanjalic, A. (2012) Proceedings of 6th ACM Int. Conf. on Recommender Systems (ACM RecSys’12), Dublin, Sept 2012, **Best Paper Award** 2012

<i>"Money Walks: A Human-Centric Study on the Economics of Personal Data"</i> Staiano, J., <b>Oliver, N.</b> , Lepri, B., Oliveira, N., Caraviello, M. and Sebe, N. Proceedings of ACM Int. Conf. on Ubiquitous Computing (ACM Ubicomp'14). Seattle. Sept 2014, <b>Best Paper Award</b>	2014
<i>"Layered representations for human activity recognition"</i> , <b>Oliver, N.</b> , Horvitz, E. and Garg, A. Proceedings of IEEE Int. Conf. on Multimodal Interfaces (ICMI'02), 3-8, 2004, <b>ACM ICMI Ten Year Technical Impact Award</b>	2002
<i>"When attention is not scarce: Detecting boredom from mobile phone usage"</i> Pielot, M., Dingler, T., San Pedro, J. and <b>Oliver, N.</b> Proc. of ACM Int. Joint Conf. on Pervasive and Ubiquitous Computing (ACM Ubicomp'15), Osaka. Sept 2015, <b>Best Paper Award</b>	2015
<i>"Lafter: Lips and face real time tracker"</i> , <b>Oliver, N.</b> , Pentland, A.P., and Berard, F. Proceedings of IEEE Computer Vision and Pattern Recognition (CVPR'97), 1997, 123-129 <b>Nominated to Best Paper Award. Best Presentation Award</b>	1997
<i>"MPTrain: A Music and Physiology-based Personal Trainer on your Mobile Phone"</i> <b>Oliver, N.</b> and Flores-Mangas, F. Proceedings of ACM Int. MobileHCI'06, 21-28, Helsinki, Iceland, Sept 2006. <b>Nominated to Best Paper Award</b>	2006
<i>"Text versus Speech: A Comparison of Tagging Input Modalities for Camera Phones"</i> , Cherubini, M., Anguera, X., <b>Oliver, N.</b> and Oliveira, R., Proc. ACM Int. Conf. on Mobile HCI (ACM MobileHCI'09), Bonn, Germany, Sept 2009, <b>Nominated to Best Paper Award</b>	2009
<i>"Understanding Near-Duplicate Videos: A User-Centric Approach"</i> , Cherubini, M., Oliveira, R. and <b>Oliver, N.</b> (2009), Proceedings ACM Int. Conf. on Multimedia (ACM MM'09), Beijing, China, Oct 2009, <b>Nominated to Best Paper Award</b>	2009
<i>"Social Tagging Revamped: Supporting the Users' Need of Self-promotion through Persuasive Techniques"</i> , Cherubini, M., Gutierrez, A., Oliveira, R. and <b>Oliver, N.</b> (2010), Proceedings ACM Int. Conf. on Human Factors in Computing Systems (ACM CHI'10), Atlanta, US, April 2010, <b>Nominated to Best Paper Award</b>	2010
<i>"Multiverse Recommendation: N-dimensional Tensor Factorization for Context Aware Collaborative Filtering"</i> Karatzoglou, A., Amatriain, X., Baltrunas, L. and <b>Oliver, N.</b> (2010) Proceedings of ACM Int. Conf. on Recommender Systems (ACM RecSys'10), Barcelona, Sept 2010, <b>Nominated to Best Paper Award</b>	2010

## Patents

Inventor of 40 granted or filed patents.

Patent App #

US 11/864,599	Get prep questions to ask a doctor
US 11/559,794	Space time trail annotation and recommendation
US 11/535,822	Window Grouping
US 11/426,830	Providing user information to introspection
US 11/426,804	Activity centric adaptive user interface
US 11/426,818	Monitoring group activities
US 11/426,796	Activity centric domain scoping
US 11/426,839	Resource availability for user activities across devices
US 11/426,827	Creating and managing activity-centric workflow
US 11/426,832	Capture of process knowledge for user activities

US 11/426,788 Activity-centric granular application functionality

US 11/426,846 Logging user actions within activity context

US 11/426,810 Managing activity centric environments via profiles

US 10/968,861 Parsing location histories

US 10/729,464 Systems and methods for guiding allocation of computational resources in automated perceptual systems

US 10/724,950 Architecture for controlling a computer using hand gestures

US 10/183,774 Layered models for context awareness

US 11/407,645 Algorithms for computing heart rate and movement speed of a user from sensor data

US 11/407,493 Using music to influence a person 's exercise performance

US 11/195,338 Mobile, personal, and nonintrusive health monitoring and analysis system

US 11/407,618 Algorithm for providing music to influence a user 's exercise performance

US 11/934,522 Mobile Exercise Enhancement with Virtual Competition

US 10/180,770 Maximizing mutual information between observations and hidden states to minimize classification errors

US 10/183,774 Layered models for context awareness

US 13/356,846 Method to assess aesthetic quality of photographs

US 13/821,329 Method for the classification of images

US 12/457,656 System and method for executing a game process

US 13/098,515 Method for an automatic identification of urban dense areas from cell phone records

EP20120722321 Method of characterizing a social network communication using motifs

US 13/807,375 Method for classification of videos

US 13/026,648 Medication compliance using persuasive computing

US 13/640,527 Method and system for facilitating exchange of items in a network

US 13/098,801 Method for automatic storytelling for photo albums using social network context

US 13/177,615 Customer Cognitive Style Prediction Model Based on Mobile Behavioral Profile

US 13/014,099 Real-time music to music-video synchronization method and system

PCT/EP2011/001382 Multiverse recommendation method for context-aware collaborative filtering

EP20090382209 Denoising explicit feedback for recommender systems

PCT/EP2011/067091 System and method for multiperspective telepresence communication

EP20090382213 Method for detecting audio and video copy in multimedia streams

EP20130382536 Method for predicting reactiveness of users of mobile devices for mobile messaging

## Selection of Publications (20 most cited)

More than 100 publications, which have been cited more than 9000 times according to Google Scholar: <http://tinyurl.com/q3h5sqr>. According to Google Scholar would be one of the most cited female computer scientists in Spain.

- "A Bayesian computer vision system for modeling human interactions"*, **Oliver, N.**, Rosario, B. and Pentland, A.P. *Pattern Analysis and Machine Intelligence, IEEE Transactions on* 22 (8), 831-843 2000  
[cited by 1521]
- "Image analogies"*, Hertzmann, A., Jacobs, C.E., Oliver, N., Curless, B., and Salesin, D.H. *Proceedings of 28<sup>th</sup> ACM Int. Conf. on Computer Graphics and Interactive Techniques (SIGGRAPH'01)*, 2001, 327-340 2001  
[cited by 1220]
- "Coupled hidden Markov models for complex action recognition"*, Brand, M., **Oliver, N.** and Pentland, A.P. *Proceedings of IEEE Int. Conf. on Computer Vision and Pattern Recognition (CVPR'97)*, 1997, 994-999 1997  
[cited by 1065]
- "Layered representations for learning and inferring office activity from multiple sensory channels"*, **Oliver, N.**, Garg, A. and Horvitz, E. *Computer Vision and Image Understanding* 96 (2), 163-180 2004  
[cited by 330]
- "Layered representations for human activity recognition"*, **Oliver, N.**, Horvitz, E. and Garg, A. *Proceedings of 4<sup>th</sup> IEEE Int. Conf. on Multimodal Interfaces (ICMI'02)*, 3-8, 2002, **ACM ICMI Ten Year Technical Impact Award** 2002  
[cited by 309]
- "Lafter: Lips and face real time tracker"*, **Oliver, N.**, Pentland, A.P., and Berard, F. *Proceedings of IEEE Computer Vision and Pattern Recognition (CVPR'97)*, 1997, 123-129 2004  
[cited by 294]
- "Multiverse recommendation: n-dimensional tensor factorization for context-aware collaborative filtering"*, Karatzoglou, A., Amatriain, X., Baltrunas, L., and **Oliver, N.** *Proceedings of the 4<sup>th</sup> ACM Conference on Recommender Systems (RecSys'10)*, 2010, 79-86 2010  
[cited by 235]
- "Graphical models for driver behavior recognition in a smartcar"*, **Oliver, N.** and Pentland, AP. *Proceedings of IEEE Intelligent Vehicles Symposium (IV'00)*, 2000, 7-12 2000  
[cited by 223]
- "HealthGear: a real-time wearable system for monitoring and analyzing physiological signals"*, **Oliver, N.** and Flores-Mangas, F. *Proceedings of IEEE Int. Symposium on Wearable and Implantable Body Sensor Networks (BSN'06)*, 2006, 4 2006  
[cited by 193]
- "Lafter: A real-time face and lips tracker with facial expression recognition"*, **Oliver, N.**, Pentland, A.P., and Berard, *Pattern Recognition* 33(8), 1369-1382 2000  
[cited by 160]
- "MPTrain: a mobile, music and physiology-based personal trainer"*, **Oliver, N.** and Flores-Mangas, F. *Proceedings of the 8<sup>th</sup> ACM Conference on Human-computer Interaction with Mobile Devices and Services (MobileHCI'06)*, 2006, 21-28 2006  
[cited by 147]
- "Curve Analogies"* Hertzmann, A., **Oliver, N.**, Curless, B., Seitz, S., *Proceedings of ACM Int. Conf. on Computer Graphics and Interactive Techniques (ACM SIGGRAPH'02)*, 2002, 233-246 2002  
[cited by 140]
- "3D Modeling and Tracking of Human Lip Motions"* Basu, S., **Oliver, N.**, Pentland, A, *Proceedings of IEEE Int. Conf. on Computer Vision (ICCV'98)*, 1998, 337-343 1998  
[cited by 105]
- "Sensing and Predicting the Pulse of the City through Shared Bicycling"* Froehlich, J., Neumann, J. and **Oliver, N.** *Proceedings of Int. Joint Conf. on Artificial Intelligence (IJCAI'09)*, 2009, 1420-1426 2009  
[cited by 112]
- "I like it...I like it not: Evaluating user ratings noise in recommender systems"* Amatriain, X., Pujol, J.M. and **Oliver, N.**, *Proceedings of Int. Conf. on User Modeling, Adaptation and Personalization (UMAP'09)*, 2009, 247-258 2009  
[cited by 98]
- "The Wisdom of the Few: a Collaborative Filtering Approach based on Expert Opinions from the Web"* Amatriain, X., Lathia, N., Pujol, J.M., Kwak, H. and **Oliver, N.**, *Proceedings of ACM Int. Conf. on Recommender Systems (RecSys'09)*, 2009, 532-539 2009  
[cited by 95]
- "SWISH: Semantic Analysis of Window Titles and Switching History"* **Oliver, N.**, Smith, G., Thakkar, C., and Surendran, A.C., *Proceedings of ACM Int. Conf. on Intelligent User Interfaces (IUI'06)*, 2006, 194-201 2006  
[cited by 89]

“TripleBeat: Enhancing Exercise Performance with Persuasion” de Oliveira, R., and <b>Oliver, N.</b> , Proceedings of ACM Int. Conf. on Human-computer Interaction with Mobile Devices and Services (MobileHCI’08), 2008, 255-264	2008 [cited by 87]
“CLiMF: Learning to Maximize Reciprocal Rank with Collaborative Less-is-more Filtering” Shi, Y., Karatzoglou, A., Baltrunas, L., Larson, M., <b>Oliver, N.</b> , and Hanjalic, A., Proceedings of ACM Int. Conf. con Recommender Systems (RecSys’12), 2012, 139-146 <b>Best paper award</b>	2012 [cited by 86]
“A comparison of HMMs and Dynamic Bayesian Networks for Recognizing Office Activities” <b>Oliver, N.</b> , and Horvitz, E., Journal on User Modeling, 2005, 1/1, 199-209	2005 [cited by 79]
“Data mining methods for recommender systems” Amatriain, X., Jaimes, A., <b>Oliver, N.</b> , and Pujol, J.M., Chapter in the book “Recommender Systems Handbook”, 2011, 39-71	2011 [cited by 75]

## Awards and Honors

ACM Distinguished Scientist	2015
ICT Woman 2015 (by the Catalan Government)	2015
ACM ICMI Ten Year Technical Impact Award	2014
IEEE Senior Member	2014
ACM Senior Member	2013
Rising Talent by the Women’s Forum for the Economy and Society	2009
MIT TR100 (today TR35) Young Innovator Award by MIT Technology Review	2004
Motorola Fellow	1997-98
“La Caixa” Foundation Fellow	1995-97
First National Prize of Telecommunication Engineers	1994
First Prize of Telecommunications Engineers at the ETSIT in UPM	1994
Siemens International Student Circle Fellow	1992-94

## Media Coverage

My profile, my work and my team’s work have regularly been featured in the media (press, radio, TV and digital media) nationally and internationally, such as BBC News, WIRED, MIT Technology Review, The Economist, El PAIS, El Mundo, Actualidad Económica, Revista Capital, RTVE, RNE, Expansión, MUY INTERESANTE, National Public Radio and ABC Good Morning America.

You can find a complete list of media coverage here: <http://www.nuriaoliver.com/press.htm>, from which a selection is shown below:

2015	EL PAIS Sunday Magazine, in-depth 6-page interview
2015	MUY INTERESANTE magazine, interview about “ <i>Artificial Intelligence</i> ”
2015	MIT Technology Review, “ <i>Your Smartphone can tell if you are bored</i> ”
2015	RNE Radio 3, “ <i>Science with Nuria Oliver, Artificial Intelligence</i> ”
2015	Featured as one of four “ <i>Women in success</i> ” by Glamour magazine
2015	“ <i>Special report economy: Interview with digital entrepreneur Nuria Oliver</i> ” by the Women’s Forum for the Economy and Society
2015	Interview for EL MUNDO newspaper: “ <i>Predicting future crimes with 70% accuracy through Big Data</i> ”
2014	Actualidad Económica Magazine: “ <i>A mine of data and good actions</i> ”
2014	TechCrunch, “ <i>Using Big Data to Fight Pandemics</i> ”
2014	MIT Technology Review, “ <i>Researchers test personal data market to find out how much your information is worth</i> ”
2013	WIRED 2013: “ <i>What big data and the Mexican pandemic taught us</i> ”

- 2012 EL PAIS Sunday Magazine: *"Female Energy: nine Spanish female technology leaders"*, selected as one of 9 women who are leaders in technology companies
- 2009 Capital Magazine: Named one of *"100 leaders for the future"*
- 2008 Interview for RNE *"Nuria Oliver, Artificial Intelligence expert"*, RNE3
- 2008 Expansión Newspaper *"Nuria Oliver leaves Bill Gates for Alierta"*
- 2007 Interview and demo for ABC *"Good morning America"*, NYC
- 2007 *"The brain that changed our world"* by David Dusster, interview for La Vanguardia newspaper
- 2006 EL PAIS Sunday Magazine: *"Travel inside Microsoft"*
- 2005 RTVE, *"De Cerca"* program, one-hour TV interview about *"Artificial Intelligence"*
- 2005 *"Nuria Oliver"*, long interview for the economy magazine Actualidad Economica
- 2004 EL PAIS newspaper: *"A Spaniard on the digital summit"*
- 2004 MIT Technology Review, *"TR100 Young Innovators of 2004"*

#### Articles authored for the media (selected)

- 2015 EL PAIS newspaper, *"The mobile phone changes its skin"*, article for EL PAIS. Most read article the week that it was published and in the top 10 most popular technology articles in EL PAIS in 2015
- 2014 TechCrunch, *"Using Big Data to fight pandemics"*
- 2013 The Guardian, *"Combating global epidemics with Big Data"*

### Selected Scientific Keynotes

A complete list can be found here: <http://www.nuriaoliver.com/invitedtalks.htm>

- Keynote speaker at IEEE Int. Conf. on Intelligent Environments, *"Data-driven Machine-learning Models of Individual and Aggregate Human Behavior"*, London, UK, 2016
- Keynote speaker at the Big Data workshop in the 1<sup>st</sup> European Celebration of Women in Computing, Brussels, 2016
- Keynote speaker at CAEPIA, *"Data-driven Machine-learning Models of Individual and Aggregate Human Behavior"* Albacete, 2015
- Keynote speaker at IEEE Int Conf on Data Science and Advanced Analytics, *"Towards Individual and Aggregate Models of Human Behavior from Data in the Real-world"* Paris, 2015
- Keynote speaker at NetSci BackStage, *"Big Data for Social Good: Opportunities and Challenges"* Zaragoza, 2015
- Keynote speaker in 5th ACM International Conference on Digital Health, *"Towards better health with mobile computing"* Florence, 2015
- Keynote speaker at ICEIS 2015, *"Data-driven Models of Human Behavior"* Barcelona, 2015
- Keynote speaker at Int Conf NTTs, *"Human Behavior Modeling from Big Data"* Brussels, 2015
- Keynote speaker at ITU WTIS 2014 Global Conference on Big Data for Development, *"Big Data for Social Good: Opportunities and Challenges"* Georgia, 2014
- Keynote speaker at ACM y IEEE Int Conf MODELS 2014, *"Towards data-driven models of humans"* Valencia, 2014
- Keynote speaker at Microsoft's Innovation Outreach Program, *"The Future of Mobile Computing"* Barcelona, 2014
- Keynote speaker at New Frontiers in Digital Technologies for Influenza, *"Big Data and the H1N1 flu pandemic"* London, 2014
- Keynote speaker at European Wireless Conference, *"Small Devices for Big Impact"* Barcelona, 2014
- Keynote speaker at IEEE EUSIPCO 2011, *"Towards Smart Cities"* Barcelona, 2011

Keynote speaker at TTI/Vanguard NextGens Conference, *“Wearable Physiological Monitoring”* Seattle, 2006

Keynote speaker at Int Conf on Visual Computing (Visual 2000), *“Towards Perceptual Intelligence”* Mexico DF, Mexico, 2001

Keynote speaker for Barcelona’s Science Week, *“The MIT Media Lab: The Most Advanced Technological Research”* Barcelona, 1999

## **Selected Invited Talks (non-scientific)**

### **To Government Bodies**

Invited panelist at OECD/PARIS21 Workshop on Access to New Data Sources for Statistics, Paris, 2015

Invited panelist at the panel “How to nurture women in the development of the digital economy” with the participation of the Colombian vice-minister of technology, M. Isabel Mejia. Colombia. 2015

Co-author of a proposal for a computer science curriculum for Spanish students starting at 5 years old, based on the British curriculum, shared with several schools in Spain and representatives of the Catalan Government (2014-2015)

Invited speaker at a conference about Research Policies organized by the Ministry of Science and Technology, “Research in Science and Technology: Opportunities and Challenges” Santander University, Santander, 2005

Invited speaker for Valencia’s strategic city plan, *“Cities of Atoms and Bits”*, Palace of Congress, Valencia, Spain, 1999

Invited speaker for the Spanish Senate, special commission of Computer Networks, “Research at the MIT Media Lab”, Spanish Senate, Madrid, 1998

### **To a Specialized Audience**

Keynote speaker in DPharm: Disruptive Innovations for Clinical Trials, *“The future of Mobile”* Boston, 2015

Keynote speaker in BDigital Global Congress, *“The future of the mobile phone”* (2015), *“Big Data for Social Good”* (2013) Barcelona

Keynote panelist in GSMA Mobile World Congress, *“Big Data for Social Good”* session, Barcelona, 2015

Invited panelist at the Royal Statistical Society: *“What is the future of official statistics in the big data era”* London, 2014

Invited panelist in Data Renaissance: A New Era of Data Innovation within Responsible Business Week, London, 2014

Keynote speaker at WIRED London, *“What Big Data and the Mexican Pandemic Taught Us”* London, 2013

Keynote speaker at “La Caixa Foundation” Fellowship Award ceremony, in the presence of the King and Queen of Spain and other personalities, 2008

Keynote panelist invited as an expert in various European Commission expert meetings

### **To the General Public**

Keynote speaker at Tertulia Digital, *“The future of the mobile phone”*, Barcelona, 2015

Keynote speaker at 5 Talks Barcelona, *“How Big Data can help Fight Pandemics: From H1N1 to Ebola”* Barcelona, 2015

Keynote speaker at UPC during Science Week. Talk followed live by a few hundred students and via streaming by 3300 high school students, *“Small Devices for Big Impact”* Barcelona, 2013

Speaker at TEDx Barcelona, *“My cellphone, my partner”* Barcelona, 2013

Speaker at TEDxRamblas, *“The Invisible Army: Small Helpers for Big Problems”* Barcelona, 2012