



The women of WiDS-Barcelona2022



WOMEN IN DATA SCIENCE
BARCELONA

WiDS-Barcelona 2022
April 20th, 2022. 9:30h-14:30h
Manel Martí Recober Event's Hall of the FIB

The women of WiDS-Barcelona2022



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Sala d'actes de la FIB
20 d'abril de 2022, 9:30-14:30



Welcome



Josefina Antonijuan Rull

Vice-Rector for Social Responsibility and Equality
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Josefina Antonijuan Rull holds a bachelor-master degree in mathematical sciences from the University of Barcelona (1993) and a doctorate in mathematical sciences from the Universitat Politècnica de Catalunya (1999). Since 2002 she is Professor at the Department of Mathematics at the UPC. She has taught at the Polytechnic School of Engineering of Vilanova i la Geltrú (EPSEVG) and eventually at the School of Telecommunications and Aerospace Engineering of

Castelldefels (EETAC) and at the Barcelona School of Informatics (FIB). She has written 3 university-level teaching manuals and has participated in a conference, in teaching innovation workshops and in a funded teaching innovation project. In the field of management, she has been head of section of the Department of Mathematics of the UPC in Vilanova (2018-2021) and a member of the University Senate of the UPC (2013-2021).

As a researcher, she is part of the SARTI group (Remote Acquisition and Information Processing Systems research group). Her activity has focused on numerical simulation applied to fluid dynamics, fishing gear and analysis of sea currents and sedimentary dynamics. She has participated in 9 research projects funded in national and European competitive calls, and is the co-author of 15 articles in indexed journals and 22 publications in conferences.



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Karina Gibert i Oliveras

WiDS-Barcelona 2022 ambassador, full Professor and director of IDEAI-UPC, Vice Dean for Equality and Ethics (COEINF)

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Full Professor at the UPC for over 30 years. She holds a bachelor degree, a master degree and a doctorate in computer engineering. Co-founder and former secretary of the Intelligent Data Science and Artificial Intelligence Research Center (IDEAI-UPC). She does research in strategic knowledge extraction from data and intelligent systems. Expert in the Catalan Artificial Intelligence Strategy Catalonia.ai (Gencat, Feb 2020), she has participated in the drafting of the Strategy (2018-2020).

Senate Expert in Artificial Intelligence and Ethics (Jan 2021-). EC Consultant on Artificial Intelligence Ethics (2020). Consultant of the WHO Department of Mental Health (Feb 2008-Aug 2010) to analyze Mental Health in LAMIC countries. Member of several AI ethics committees and advisory boards. Founder and President of donesCOEINF (May 2018-) for monitoring the gender gap in computing engineering. Founder and president of donesAcad (gender chapter of the Catalan Association of Artificial Intelligence, March 8, 2019), member of the commission Women and Equality of the Intercollegiate (Sep 2018-). Co-founder of Women in Computer Engineering (June 2021-), of the General Council of Colleges of Computing Engineering of Spain. Member of the commission for women and equality of the Intercollegiate (2019-). Ambassador of WiDS-Barcelona (Stanford Women in Data Science, Jan 2021-). Scientific director of the Top Secret Rosies program, generation of female talent in AI (2021-). IP of the INSESS-COVID19 project on characterization of the emerging social vulnerability of COVID19. (2020-). Promoter and Technological Director of the critvirtual.com movement and the virtual international demonstration for Afghan women on 26 Nov 2021. Researcher at the European GAVIUS project on the digital transformation of social services (2019-).

Awards: Finalist in the European Social Services Awards 2021. Honorary Mention 2021 in the Creu Casas Award, Women for Changing the World (Institut d'Estudis Catalans). DonaTIC Award 2018 in the academic / research category (Generalitat de Catalunya). First prize in the HackingBullipedia Contest (Nov 2013), related to the famous chef Ferran Adrià, with the GENESIS project: Intelligent decision support for creative through evolutionary analysis, vimeo.com/78143348. Award for the best European eHealth project in the EU to the K4Care project (February 2010) for the high-quality standards achieved. Distinction "Highly accessed paper", HARPS (v8 (28) 1:16), 2010. Elected member of iEMSS (July 2007).



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Núria Castell Ariño

WiDS-Barcelona 2022 co-ambassador, former dean of the FIB nuria.castell@upc.edu
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Dr. Núria Castell Ariño. Retired Professor at the Universitat Politècnica de Catalunya-BarcelonaTech. She holds a bachelor-master degree (UAB) and a PhD (UPC) in Computing Engineering.

She has been Vice-Dean for International Relations at the FIB (2004-2010) and Dean of the FIB (2010-2017). Co-founder of the Intelligent Data Science and Artificial Intelligence Research Center (IDEAI). Her field of research is Natural Language Processing. She has published articles in conferences, journals and books, mainly related to the natural language processing and

some others on topics related to education. She has participated in national and European competitive research projects, being the responsible researcher in some of them. She has been actively involved in the design and innovation of educational programs, not only at the UPC level but also in the framework of European projects. She currently continues to collaborate in continuing education programs with the UPC School. She is actively involved in gender equality issues, and especially in actions to increase the presence of women in the field of Information and Communication Technologies (ICT). Actions, both local and international. She has participated in the design of various UPC equality plans, being part of the UPC equality commission and leading internal projects such as "+noiesTIC". She has collaborated in the European project H2020 Gender Equality in Engineering through Communication and Commitment (GEECCO). She is a consultant on gender issues in European projects. She is a founding member of the women's gender commission (donesCOEINF) of the Official College of Computing Engineering of Catalonia (2018-). She is a member of the experts committee of the Intercollegiate Commission on Women and Equality. (2021-). Co-founder of Women in Computing Engineering (June 2021-), of the General Council of Colleges of Computing Engineering of Spain. Since 2018, she is a member of the WomENCourage Steering Committee, conference organized annually by the ACM-WE (ACM Women's Chapter in Europe), and she is currently chairing the committee. Awards: honorary mention of the Creu Casas award "Women for changing the world", IEC in 2020, the UPC award for Social Commitment in the field of gender equality in 2020 (individual) and in 2021 (collective)), the Salvà i Campillo Award for Outstanding Personality of LaNit 2021 and the Mention M. Encarna Sanahuja Yll (collective) of the Generalitat de Catalunya in 2021.



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Round table 1: The Catalan ecosystem of data science and engineering



Marta Tolós Rigueiro

Head of Data Science & Data Engineering at Zurich Insurance Company Ltd

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Marta Tolós is the Head of Data Science and Data Engineering in Zurich Insurance.

Her department provides Data Science and Data Engineering/Big Data Services to Business Units and Group Functions inside Zurich's organization worldwide. Marta has a Master's degree in Telecommunications Engineering, a Master's Degree in Energy Engineering from the Universitat Politècnica de Catalunya, a Master's

Degree in Computer Science with focus on Advanced Artificial Intelligence and an MBA. Before joining Zurich in 2016, she worked as a trainee at IBM Spain and at the IBM Research Lab in Germany in the data mining department. She started her professional career working as a researcher at SONY Research Lab in Germany, focusing on speech recognition and machine learning for robotics. She worked as a consultant and a researcher for the Carnegie Mellon University and the Karlsruhe University. She worked as a Software Team leader for Robert BOSCH in the automotive sector in Germany and as a Technical Manager in the R&D department of the Catalan company GTD, focusing on Data Science in different R&D projects for power networks. She joined Telefonica R&D in 2012 as a Development Lead Manager and a Senior Data Scientist, leading Big Data Developers and Data Scientists in Spain and Brazil. Marta has contributed to several publications and has seven patents and collaborated as adjunct professor in La Salle University and currently in EAE Business school.

Specialities: Artificial intelligence: Machine learning, data mining, artificial vision, speech recognition. Energy Engineering: Electricity networks, renewable energies: wind energy (eolic energy). Signal Processing: specially speech and music processing.



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Àtia Cortés Martínez

*Recognised Researcher at Social Link Analytics Unit
(Barcelona Supercomputing Center)*

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Àtia Cortés is a computing engineer and holds a PhD in Artificial Intelligence from the UPC. She has worked for more than 10 years in European and national research projects related to AI applied to health, especially in the design and validation of medical devices with intelligent services. She is currently a postdoctoral researcher at the Barcelona Supercomputing Center and is part of the Bioinfo4Women program.



Teresa Tarragó Clua

Cofounder and CEO of Exheus

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Scientist, entrepreneur and MBA. Dr. Tarragó has a PhD in Molecular Biology from the University of Barcelona. She has solid expertise in drug discovery, gained during 15 years spent conducting several research lines on proteases and protease inhibitors at the Spanish National Research Council (CSIC) and IRB Barcelona. She has experience in managing internationally-funded research projects, as well as directing joint undertakings with

biotech companies. She has published over 40 papers and two books, and she holds four patents. In addition to her scientific qualifications, she holds an Executive MBA (ESADE) and has participated in entrepreneurship programmes, including "Ignite" at Cambridge Judge Business School and "BioEmprendedor XXI" (Barcelona).

Co-Founder and former CEO at Iproteos. She is Board Member at Accure Therapeutics. She is currently a Business Advisor at Caixa Impulse, as well as a mentor at EIT Health. She has also been nominated as one of the 10 best European female entrepreneurs in the field of biotechnology in 2019 by Labiomed. She is currently co-founder and CEO at Exheus.



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Marga Bonmatí Pérez

Deputy manager of Digital Transformation and Data at Universitat de Barcelona

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She holds a bachelor-master degree on Computing Engineering from the Barcelona School of Informatics (FIB) of the Universitat Politècnica de Catalunya (UPC).

She started her professional career in multinationals

such as SIEMENS and IBM but she has been working for the Public Administration for 25 years in different institutions and responsibilities. She is currently the Deputy Manager of Digital Transformation and Data at the University of Barcelona (UB). She previously worked for: i) Managing Director of the Open Administration Consortium of Catalonia, AOC, (2018-2021), promoting the Digital Transformation of Catalan public administrations, offering common digital services both in internal management and in the provision of better services to the citizen (Agile, intuitive, proactive and personalized digital services). ii) Director of the Information and Communication Technologies (ICT) Area of the UPC (2015-2018), leading the University's ICT team, the corporate applications of the different business areas and coordinating the services in a transversal way with the different administrative units, schools and campuses. iii) Head of ICT Services of the City Council of El Prat de Llobregat (2008-2015), leading the team and technology services in the field of telecommunications infrastructure, computer systems, corporate applications and development, and Digital Administration and core information systems. iv) Head of the Information Systems Service of the General Directorate for Modernization of the Administration of Justice - Department of Justice of the Generalitat de Catalunya (2007 - 2008), v) Head of the Geographic Information Systems at the City Council of El Prat de Llobregat (2000-2007) and iv) Head of ICT development in the same city council (1996-2000).

She is convinced that, driven by technology in general and by disruptive technologies in particular, we are living in a moment of great opportunities as a society. She is committed to collaborative and transversal work, as well as to innovation, the value of people and continuous improvement as the driving forces behind the Digital Transformation of organizations.



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Round table 2: Sex, pornography and control with data and technology. Crimes and protections



Andrea Accuosto Suárez

Lawyer specialized in Criminal Law, corporate crime, corporate compliance, and Labor Law

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Training: Professional Compliance Certification IFCA-CECOM- 2018. Criminal Liability of Legal Entities and Corporate Compliance. ICAB-UOC. 2014. Eu gender equality law, Trier, 2013. Professor of Criminal Law. Pompeu Fabra University. 2004-2006. Doctorate studies in Criminal Law and Criminal Sciences. Pompeu Fabra University, 2002. Master of Specialization in Criminal Law. Pompeu Fabra University, 2001.

Career: Doctor in Law and Social Sciences. Universidad de la República (Uruguay). 1996.

Professional associations: Il·lustre Col·legi d'Advocats de Barcelona (ICAB)- Vocal in the Women Lawyers Commission. Vocal in the Compliance Commission, and Vocal in the Compliance Section. Associació Intercol·legial de Catalunya- Representative of the ICAB Women Lawyers in the Professional Women Commission. ASCOM (Association of Regulatory Compliance Professionals). CUMPLEN (Association of Regulatory Compliance Professionals).

Publications: She has published articles on Criminal Law, Labour Law, diversity and equality in specialized magazines in Uruguay, Argentina, Brazil and Spain.

Teaching: Guest teacher Specialization in Gender Violence Studies-ICAB. Guest teacher Master in Compliance- ICAB. Guest teacher Postgraduate Courses – “Prova in the criminal process, l'intervenció de l'advocat en procés penal”. UB, Director: DR. Santiago Mir Puig, 2013/2014/2015. Assistant professor of Criminal Law. Universitat Pompeu Fabra, Barcelona, 2004-2006. Assistant professor of Criminal Law. Universidad de la República, Montevideo, 1997-2000.



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Selva Orejón

CEO of onBRANDING

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Selva Orejón is a forensic expert in digital identity, cyberinvestigation and reputation. She has a degree in Communication Sciences (Ramon Llull University), a Diploma in Business Organization and Environment (University of Cambridge) and a Diploma in Intelligence in the Service of the State and Business (UNIA). She works as a professor at the Universitat de Barcelona (UB) in the Bachelor degree in Private Research, in the Master of Cybersecurity, teaching Cyberintelligence; and at the Police School of Catalonia (IPSC) teaching Cyberinvestigation and Protection of digital identity. Her company, onBRANDING, turns 15 years old specialized in online reputation crisis management for companies, public figures and anonymous citizens. She has had the privilege of giving papers in her specialties to the Israeli Police and the General Council of the Judiciary.



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Mavi Sanchez-Vives

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Mavi Sanchez-Vives, MD, PhD in Neurosciences is ICREA Research Professor at the IDIBAPS (Institute of Biomedical Research August Pi i Sunyer) in Barcelona where she is the head of the Systems Neuroscience group. She was previously Associate Professor of Physiology at the Medical School and Group leader at the Institute of Neurosciences (Univ. Miguel

Hernandez-CSIC). She did her postdoctoral training at Rockefeller University and Yale University (USA). She has authored over 150 peer-reviewed scientific articles and has supervised 24 Doctoral Theses. She has been principal investigator in 10 European projects and is currently workpackage leader and member of the Science and Infrastructure board at the Human Brain project. Her main interests include the generation of brain rhythmic activity and brain interfacing, multisensory integration in VR and "embodiment" of virtual bodies and their applications in medicine and psychology. She is one of the founders of Virtual Bodyworks Inc.

Since 2010 she has directed work on virtual reality for the rehabilitation of domestic violence offenders. This is currently the topic of a EU project, VR per Genere (Virtual Reality Prevention of Gender Violence in Europe based on Neuroscience of Embodiment, PeRpective and Empathy). In this work, her group uses virtual reality to take the perspective of the victim, and train in non-violent behaviour as well as to prevent intimate partner abusive behaviour in the young and to increase social awareness. This approach is currently being used in rehabilitation programs in and outside prisons. This is an application of VR technology in a field of domestic violence that is of increasing importance on a global scale.



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Jeniffer Woodard

Cofounder and CEO, Insikt Intelligence, expert on AI, ethics and cybersecurity

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Jennifer is the co-founder and CEO of Insikt Intelligence, a deep-tech technology startup specializing in the development of machine learning (ML) models and the application of artificial intelligence techniques to combat terrorism, misinformation and crime on the networks. Jennifer is also a co-founder of Dataietica, a non-profit institute created by and for AI professionals and researchers convinced of the potential of new technologies in the field of public safety, and committed to making progress ethically respectful and protecting privacy and rights of citizens.

Jennifer is an internationally recognized expert in the application of AI for counterterrorism and a regular speaker at high-level events, including the United Nations, where she recently spoke about the benefits and human rights implications of using this technology in counterterrorism. She is regularly invited by European, US and Israeli organizations to share her views on the importance of ethics when artificial intelligence is placed in the hands of security forces and law enforcement agencies.



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Closing



Joana Barbany i Freixa

General Director of Digital Society, Digital Policies and Territory Department, Generalitat de Catalunya

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She was born in Barcelona in 1973 and lives in Sant Cugat del Vallès since 1999. She has a bachelor-master degree in Journalism from Pompeu Fabra University (UPF) and a diploma in Business Sciences from the University of Vic (UVIC).

She has completed a Leadership Program at IESE (PLGP), a Master's in Business Communication and Digital Technologies at the Institute of Continuing Education (IDEC) and a postgraduate degree in Knowledge Management at the Universitat Oberta de Catalunya (UOC). She has also been a participant in the

ESADE Vicens Vives Program.

Her professional career has focused on digital communication (Lavinia TC and her own company later) and strategic and organizational consulting (DEP Institute and LTC Project).

From 2011 to 2018, she was elected to the City Council of Sant Cugat del Vallès, holding, among others, the position of Mayor for Economic Promotion and Innovation and councillor of the Department of Communication and Employment. In June 2018, she was appointed Director of the Digital Society of the Generalitat de Catalunya.



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Organizing Committee



Núria Agell

Professor, ESADE, Ramon Llull University
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M.Sc. Mathematics, University of Barcelona(UB).

PhD in Applied Mathematics from UPC-BarcelonaTech (dissertation Qualitative Reasoning Modelling).

Since September 2015 director of the department of Operations, Innovation and Data Science at ESADE Business School. Director of ESADE Business School's PhD programme and Master of Research in Management Sciences from 2005 to 2013.

From October 2006 to 2010, she was appointed President of the Catalan Association for Artificial Intelligence (ACIA).

She is currently the leading coordinator of several publicly and privately-funded projects on the application of artificial intelligence to Business and Management.

Her main research interests are on the development of Artificial Intelligence techniques and Decision-Making Systems. In particular, she is working on Learning Algorithms, Qualitative and Fuzzy Reasoning, Multi-criteria and group decision-making, recommending Systems and consensus modelling. She has supervised or co-supervised 9 PhD thesis. She has more than 40 international publications in refereed journals or book chapters, and more than 50 communications in international conferences or workshops.



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Àngela Nebot

Head of the Soft Computing (SOCO) research group and member of the board of the UPC Intelligent Data Science and Artificial Intelligence (IDEAI) Research Center
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She is a professor and researcher at the Technical University of Catalonia (UPC) where she studied Computing Engineering and completed a doctorate in Artificial Intelligence.

She is the head of the Soft Computing (SOCO) research group and a board member of the UPC's Intelligent Data

Science and Artificial Intelligence Research Center (IDEAI).

She is currently Associate Professor in the Department of Computer Science and teaches courses in the bachelor degree of Computing Engineering and in the Master of Artificial Intelligence on Computational Intelligence and advanced subjects in Computational Intelligence.

She has completed several postdoctoral fellowships at the University of Arizona (USA) and at the National Autonomous University of Mexico.

Her research interests include fuzzy systems, neurofuzzy, fuzzy genetics, and other soft computing hybridization techniques, as well as modelling for prediction and decision support. Areas of application include energy, medicine, biology, atmospheric science, music, risk management and e-Learning.



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Lavanya Mandadapu

Data Scientist and Software Engineer, Netquest
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She is a Data Engineer at Netquest specialized in Artificial Intelligence and Machine Learning. She is also part of an NGO called Young IT Girls, where they try to teach young children about STEM technologies. She has a Master's degree in Artificial Intelligence and is motivated to solve challenging problems by applying cutting-edge technologies and working in innovative fields that can help her learn and evolve. She is currently a part-time professor in the Knowledge Engineering and Machine Learning group of the Intelligent Data Science and Artificial Intelligence research center (IDEAI-UPC), teaching Data Mining in the Computing Engineering degree at the FIB (UPC).



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Nataly Buslón

Barcelona Supercomputing Center - Life Sciences - Social Link Analytics Life Sciences Group
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She has a PhD and a Master's degree in Sociology from the University of Barcelona. Visiting Ph.D. at Student Teachers College Columbia University and Marketing Analyst at Universidad de la Empresa. She is a Postdoctoral Researcher in the Social Link Analytics Unit of the Barcelona Supercomputing Center. She is part of the Bioinfo4women program, in research on sex and gender biases in Artificial Intelligence and Health.

She works in relation to the impact of AI in society and participates in activities that make visible the role of women in science. Nataly has extensive experience in methods and techniques for evaluating the scientific and social impact of research. She has worked as a researcher in projects of the European Commission, in Consultancies for the Inter-American Development Bank, the National Agency for Research and Innovation and the Ministry of Social Development of Uruguay. She has been an Assistant Professor at the University of Barcelona and a Master's Tutor at the ORT Uruguay University.



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Gemma Thomas Crusells

Research Support Technique, IDEAI-UPC
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She has a degree in Physical Sciences from the UAB - Autonomous University of Barcelona.

She is currently a Research Support Technician at the IDEAI center – Intelligent Data Science and Artificial Intelligence, Universitat Politècnica de Catalunya.

She was Promoter of the Artificial Intelligence Research Center: TALP- Language and Speech Technologies, Universitat Politècnica de Catalunya.

Previously, she was at the Institut Gaudí de la Construcción Foundation, being a member of a Promotion and Development Unit dedicated to the organization of a traveling exhibition on the prevention of occupational risks in the construction sector, giving training in construction safety to workers, in training centers of the sector and to young people at risk of social exclusion.

She has also worked in the textile sector as a Quality Management and Occupational Risk Prevention technician.