



Uoc

**Internet Interdisciplinary
Institute (IN3):
Shaping the
Future Internet**

**Annual Report
2023**

**Universitat Oberta
de Catalunya**

Internet Interdisciplinary Institute (IN3)

Annual Report
2023

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01

Introduction

What is the IN3?

Founded between 1999 and 2000 by **Gabriel Ferraté** (UOC and IN3 president) and **Imma Tubella** (UOC vice president for research and IN3 vice president), the **Internet Interdisciplinary Institute (IN3)** is a research centre at the **Universitat Oberta de Catalunya (UOC)** specializing in the study of the network society. The *network society* is the result of increased centrality and changes in the conditions for generating knowledge and processing information and data, which were brought on by the emergence of the internet and digital technologies (ICT).

The IN3, unlike other research centres, connects **human sciences** (social sciences, health sciences, humanities, arts, etc.) with **engineering** disciplines, particularly computer science and telecommunications. IN3 research, currently carried out by **11 research groups**, is grounded in **multidisciplinarity, transdisciplinarity and interdisciplinarity**. On the engineering side, the IN3 creates, designs and prescribes new technologies that feed the network society and have an impact on society. And on the human sciences side, the IN3 analyses the effects of new technologies on society and identifies social needs in the context of the network society. The interrelation between engineering disciplines and human sciences at the IN3 distinguishes its research work, through which it aims to solve the social and technological challenges of the network society.

In order to maintain scientific excellence, the IN3 hosts a meeting of its **Scientific Advisory Board** every two years. This board, made up of ten researchers from various research centres and universities in Europe and the United States, serves a dual purpose. First, the board periodically evaluates the IN3's research groups and, second, it advises the IN3 on attracting new talent and suggests areas of improvement for the future.

Introduction

Mission, vision and values of the IN3

Mission

The **IN3's mission**, based on research on the knowledge society (network society), puts transversality and interdisciplinarity at the forefront, placing special emphasis on the interaction between Human and Engineering Sciences, and establishes social progress as a major research goal.

Vision

With regard to its **vision**, the IN3 aspires to become a **pioneering reference centre** in terms of the collaboration of the life sciences and the engineering disciplines in order to conduct **frontier research on the network society**. To this end, it focuses its research efforts on **analysis of the effect of ICT and internet development on human activity**, leading the **formulation of technological solutions to address the needs and demands of the network society**, and, in doing so, contributing to **social progress**.

Values

The IN3's values are **commitment, respect, transparency, professionalism, and sustainability**.

Introduction

Statement by the director of the IN3



In 2023, the IN3 once again demonstrated its commitment to scientific excellence and innovation in interdisciplinary research. I would like to extend my gratitude and congratulations to all our research groups and their members for their effort and dedication, which are reflected in this year's achievements.

One of the highlights of the year was the assessment visit by the Scientific Advisory Board (SAB), formed of 10 prestigious researchers from Europe and the United States. This year, the SAB evaluated the CareNet, CoSIN3, Dimmons, GenTIC, and KISON groups, providing predominantly positive feedback and advising us on talent acquisition and areas for improvement within the Institute.

In terms of objectives, I am proud to report that we achieved a 100% success rate in the goals set for the year. We exceeded expectations in scientific publications, talent attraction, competitive funding and contracts, once again demonstrating the strength of our team in meeting annual performance targets. Congratulations to everyone!

Introduction

Lastly, I would like to highlight that we launched our new strategic plan for the 2023–2026 period, which aims to consolidate IN3 as a leader in research into digital society. This plan, developed through a participatory process, seeks to foster interdisciplinarity, promote responsible research assessment, and actively contribute to a more just, prosperous, and sustainable society.

Once again, I would like to thank everyone at the IN3 for their unwavering commitment and tireless work. Together, we will continue to deliver excellence in research and societal impact through our resolute effort and dedication.

David Megías Jiménez
Director

02



Organization

Organization

Who are we?



Executive board

Marta Aymerich Martínez (until March 2023)

Xavier Vilajosana Guillén (from April 2023)

Vice Rector for Research, Knowledge Transfer and Entrepreneurship



David Megías Jiménez

Director



Ciro Lluca Fonollosa

Deputy General Manager for Research

Organization

Who are we?



Isabel Carol Ciurana
Management and Administrative Support Specialist



Montserrat Mir Buxalleu
Management and Administrative Support Specialist



Raissa Alvear Contreras
Management and Administrative Support Specialist

Administrative staff

Organization

Who are we?



Technical staff

Alexandre Dotor Casals
Specialist



Claudia Malpica Lander
Specialist

Organization

Who are we?



Communication staff

Marina Mora Muñoz (until July 2023)

Anna Civit de Sanz (from September 2023)

Communication Specialist

Organization

Who are we?



Dr Andreas Kaltenbrunner

Leader of the research group

Artificial Intelligence and Data for Society (AID4So)



Dr Israel Rodríguez Giral

Associate professor and leader of the research group

Care and Preparedness in the Network Society (CareNet)



Dr Rosa Borge Bravo

Associate professor and leader of the research group

Communication Networks & Social Change (CNSC)

Organization



Dr Javier Borge Holthoefer

*Senior researcher and leader of the research group
Complex Systems @ IN3 (CoSIN3)*



Dr Mayo Fuster Morell

*Senior researcher, AQU-accredited full professor and leader of the research group
Digital Commons (Dimmons)*



Dr David Megías Jiménez

*Full professor, director of the IN3 and leader of the research group
K-ryptography and Information Security for Open Networks (KISON)*



Dr Milagros Sáinz Ibañez

*Senior researcher and leader of the research group
Gender and ICT (GenTIC)*

Organization



Dr Diana Roig-Sanz

*ERC Starting Grant holder, ICREA research professor and leader of the **Global Literary Studies Research Lab (GloLS)***



Dr Jordi Cabot (until February 2023)

Dr Robert Clarisó Viladrosa (from March 2023)

*Associate professor and leader of the research group **Systems, Software and Models Lab (SOM Research Lab)***



Dr Ramon Ribera Fumaz

Full professor and lead researcher of the research group

Urban Transformation and Global Change Laboratory (TURBA Lab)



Dr Xavier Vilajosana Guillén (Full professor and Vice Rector for Research, Transfer and Entrepreneurship at the UOC) and **Dr Borja Martínez Huerta** (Researchers)

Co-directors of the research group

Wireless Networks Research Lab (WiNe)

Knowledge and research areas

The IN3's knowledge areas line up with the research areas pursued by its 11 groups.

Artificial intelligence: Artificial Intelligence and Data for Society group (AID4So)

Researching new methods in artificial intelligence (AI), machine learning and big data analytics, and the application of AI, machine learning and big data analytics to research questions in data science, computational social sciences and humanities.

Care and preparedness in the network society: Care and Preparedness in the Network Society (CareNet)

Understanding the impact of technologies, particularly information and communication technologies (ICT), on the new social and cultural order of care and alertness, and on crisis and disaster preparedness.

Communication networks and social change: Communication Networks & Social Change (CNSC)

Analysing the new forms of citizen participation and political expression brought about by networked movements and emerging technopolitical practices; and studying the role of mobile communication among non-central social groups, generally older people and the low-income population.

Complex systems: Complex Systems @ IN3 (CoSIN3)

Exploring the underlying mechanisms in complex networked systems, based on the convergence between computational social science and urban science.

Digital Commons: Dimmons group

Studying the commons (the public domain), specifically as an organizational form of production (the sharing economy or social innovation).

Information and network security and privacy: K-ryptography and Information Security for Open Networks (KISON)

Researching the security and privacy of decentralized networks, and protecting intellectual property when dealing with internet-based digital content.

Gender and ICT: Gender and ICT (GenTIC)

Identifying and analysing gender relations in the design, development, and use of science and technology innovations, with special attention to information and communication technologies (ICT) and the fields of science, technology, engineering, and mathematics (STEM).

Global literary studies and digital humanities: Global Literary Studies Research Lab (GlobaLS)

Analysing literary history from a global, decentralized and interdisciplinary perspective.

Software engineering: Systems, Software and Models (SOM Research Lab)

Studying systems and software engineering, especially with regard to promoting the rigorous use of software models and engineering principles in software design.

Urban transformation: Urban Transformation and Global Change Laboratory (TURBA Lab)

Analysing the multidimensional features of socio-environmental and socio-technological transformations at the intersection of cities and digital technologies.

Internet of things: Wireless Networks Research Lab (WiNe)

Studying systems and software engineering, especially with regard to promoting the rigorous use of software models and engineering principles in software design.

IN3 Visiting Program

The **IN3 Visiting Program** is for Spanish and international researchers at various stages of their scientific careers who wish to carry out a research stay with one of the IN3's **11 research groups**. The main aim of the programme is to build a **space for multidisciplinary exchange between researchers** that contributes to the research carried out at the IN3.

Hosting visiting research staff has **dual benefits** as well as involving a **dual commitment**.

The programme gives researchers who visit the IN3 **the opportunity to work in an established, multidisciplinary research environment**, while IN3 researchers **can learn and share knowledge, opening up new lines of research and building on and potentially expanding their networks**.

For its part, the IN3 undertakes to provide the conditions needed to complete the research stay, and **visiting researchers** undertake to ensure they have the financial resources necessary to complete the research stay and contribute to the programme's multidisciplinary exchange any outputs that emerge during the stay.

03

The IN3 in figures

The IN3 in figures

Team (51% women and 49% men)

Group directors
(4 women and 9 men) **13**

Senior researchers
(1 woman and 1 man) **2**

Predoctoral researchers
(32 women and 28 men) **60**

Postdoctoral researchers
(37 women and 34 men) (31 of whom are teaching staff at the UOC) **71**

Research assistants
(15 women and 20 men) **35**

Interns
(2 women and 2 men) **4**

Visiting researchers
(16 women and 6 men) **22**

Sciences Po Paris (France), University of Copenhagen (Denmark), University of Málaga (Spain), University of Stavanger (Norway), University of Edinburgh (United Kingdom), Oslo Metropolitan University (Norway), Royal Institute of Technology (Sweden), University of London (United Kingdom), Universidad Popular Autónoma del Estado de Puebla (Mexico), Iquadrat Informatica SL (Spain), Universidad de Chile (Chile), Koç University (Turkey), Beijing Jiaotong University (China), Institute of Ethnology (Hungary), Humboldt-Universität zu Berlin (Germany), Monash University (Australia), University of Sciences and Technology Houari Boumediene (Algeria), AI Forensics (Italy), Universitat Autònoma de Barcelona (Spain), Universidade de Santiago de Compostela (Spain) and UOC (Spain)

External collaborators
(21 women and 19 men) **40**

Publications

Articles published in 2023 **123**

of which 7 are conference proceedings and 16 are intergroup publications (involving two or more IN3 research groups)

Books **6**

Book chapters
(29 of which are conference proceedings) **74**

Theses

Doctoral theses
(defended) **13**

Innovation

Patents in force in 2023 **7**

Consulting assignments
(secured in 2023) **10**

Consulting assignments in progress in 2023
(40% led by women and 60% led by men) **5**

Conferences and scientific symposia

(30% face-to-face, 24% online and 46% hybrid)

Activities organized by the IN3, with some 2,918 participants **74**

Seminars **42**

Seminar series **1**

Symposia **5**

Congresses **2**

Lectures **2**

Webinar **1**

Talk **1**

Round table **1**

Partner event **1**

The IN3 in figures

Conferences and scientific symposia

(30% face-to-face, 24% online and 46% hybrid)

Presentation	1
Award ceremony	1
Workshops	3
Meetings	3
Project launch event	1
Pilot project	1

Around **100** instances of IN3 researchers participating in activities run by institutions, centres, and organizations outside the IN3 (*according to the information gathered and disseminated by the Executive Secretary's Office of the IN3*).

Projects

Projects awarded funding in 2023	14
Intergroup projects awarded funding in 2022 (involving more than one IN3 research group)	7
Ongoing projects (3 international, 16 European, 17 Spanish and 12 regional) (45% of these projects are led by women and 55% by men)	49
Other grants / funding and research contracts	

Internal mobility grants	5
Internal grants for recruiting talent (pre and post)	5
Research contracts	11
Externally funded staff members recruited	12

Talent recruitment

Grants for hiring junior research staff (FI)	5
Grant for hiring junior research staff (FPI)	1
Grant for Juan de la Cierva (JdC) contracts	1
Grants for Ramón y Cajal (RyC) contracts	2
Grant for Beatriz de Pinós (BP) contracts	1
Marie Skłodowska-Curie (MSCA) postdoctoral grant	1
ICREA Acadèmia	1

04



2023 milestones

Universitat
Oberta
de Catalunya

(Photo: Conference video, UOC YouTube channel)



Conference: “La deliberación política en Twitter y en las plataformas de los partidos en España”

 **28** participants **646** views on YouTube

Communication Networks & Social Change (CNSC)

This **conference on political debate on X (formerly Twitter) and on party platforms in Spain**, organized by the CNSC research group in partnership with the UOC’s **Faculty of Law and Political Science** and the **eGovernance: electronic administration and democracy (GADE)** research group, took place online and face-to-face on **26 January**. The conference comprised two main sections, a presentation of the results of the **ONPARTDEL Project**, and a **discussion** between communications managers from the political parties Demòcrates de Catalunya (Democrats of Catalonia), Ciudadanos (Citizens), Barcelona en Comú (Barcelona in Common), Junts (Together for Catalonia) and Esquerra Republicana (Republican Left of Catalonia) about political debate on X (formerly Twitter) and on the parties’ own platforms.

January

March



(Photo: PyroLife project website)

Congress: “PyroLife 2023: The Four Axes of Diversity of Wildfire”

 **50** participants

Care and Preparedness in the Network Society (CareNet)

The **“PyroLife 2023 Conference: The Four Axes of Diversity of Wildfire”** was organized by the CareNet research group, in partnership with **Wageningen University & Research** and the **Pau Costa Foundation**, and took place on **14, 15 and 16 March**. Three years after the launch of the **PyroLife Project**, newly qualified and senior researchers in integrated forest fire management debated and reflected on the education and training of future generations of fire scientists.

(Photo: Congress of Feminist Economics website)



8th Congress of Feminist Economics

 **600** participants

Digital Commons (Dimmons)

The **8th Congress of Feminist Economics**, organized by the **Dimmons** research group in partnership with **Barcelona City Council**, was an in-person event that took place on **16, 17 and 18 March**. Held for the first time in Barcelona, the **Congress** brought together around 600 participants and more than 100 speakers to discuss the present and future of the feminist (digital) economy.


July

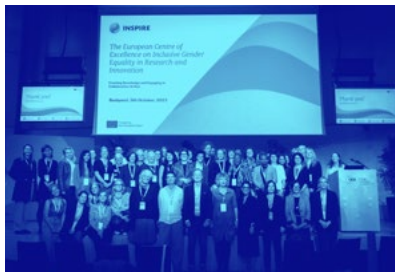
Webinar: IA generativa en educación: una visión práctica

 **150** participants

Systems, Software and Models Research Lab (SOM Research Lab)

This **webinar to examine generative AI in education from a practical perspective** was organized by the **SOM Research Lab** research group on **18 July**. **Robert Clarisó Viladrosa**, associate professor in the Faculty of Computer Science, Multimedia and Telecommunications at the UOC, director of the SOM Research Lab research group and main speaker of the session, addressed, from a practical perspective, the ways in which education and teaching have been redefined since the emergence of artificial intelligence (AI) in the field.

(Photo: GenTIC's X (formerly Twitter) account)



INSPIRE Conference “Inclusive Gender Equality in Research & Innovation: Creating Knowledge for Systemic and Sustainable Structural Change”

 **90** participants

Gender and ICT (GenTIC)

The face-to-face **“Inclusive Gender Equality in Research & Innovation: Creating Knowledge for Systemic and Sustainable Structural Change”** conference was organized by the GenTIC research group and took place on **5 October**. Researchers, gender equality professionals, experts in innovation and intersectionality, and policymakers met to share knowledge and discuss how to develop more inclusive gender equality plans at research centres and higher education institutions.

October

(Photo: conference website)



Conference: VII Jornadas de Renaturalización de Espacios y Entornos Educativos

 **225** participants

Urban Transformation and Global Change Laboratory (TURBA Lab)

This **seventh conference on renaturalization of educational spaces and environments**, organized by the TURBA Lab research group in partnership with **Barcelona City Council**, **Barcelona Provincial Council**, the **Barcelona Institute for Childhood and Adolescence - Metròpoli Institute**, and **El Globus Vermell**, took place on **18, 19 and 20 October**. Part of the **Patis X Clima Programme**, the conference brings together professionals whose interdisciplinary work contributes to the physical, environmental, social or educational improvement of the city. **The seventh edition of the conference**, held in Barcelona, focused on the **renaturalization of educational spaces and environments**.

**UOC Online Employment Fair “LLMs (ChatGPT and others):
Understanding how they work and the changes they can bring”**

 **15** participants

Artificial Intelligence and Data for Society (AID4So)

The “**LLMs (ChatGPT and others): Understanding how they work and the changes they can bring**” session was organized by the UOC’s Career and Employment Services and took place on **16 November**. **Andreas Kaltenbrunner**, director of the AID4So research group and the session’s keynote speaker, addressed the use and operation, pros and cons, and potential dangers and inherent weaknesses of the new large language models.

November

December

DataScience in/for Barcelona (DS4BCN) 2.0 Workshop

 **75** participants

Complex Systems @ IN3 (CoSIN3)

Organized by the CoSIN3 research group, the **face-to-face DataScience in/for Barcelona 2.0 Workshop** was held on **13 December** in Barcelona. Speakers and participants at the **second Workshop** discussed and reflected on the key social and health issues facing cities, and changing perspectives on open data policies, the challenges associated with them and their applications.

05



News

News



(Photo: UOC)

Philosopher Marina Garcés and researcher Andreas Kaltenbrunner open the academic year with a discussion on artificial intelligence

Artificial Intelligence and Data for Society (AID4So)



(Photo: Chris Gallagher/Unsplash)

The UOC participates in a European project to improve the response to climate change-related emergencies

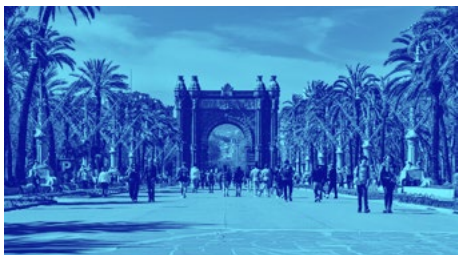
Care and Preparedness in the Network Society (CareNet)



(Photo: Adobe Stock)

Getting older in Silicon Valley (and the world): digital ageism in the heart of the tech revolution

Communication Networks & Social Change (CNSC)



(Photo: AXP Photography)

The 15-minute city begins with sidewalks that aid mobility

Complex Systems @ IN3 (CoSIN3)

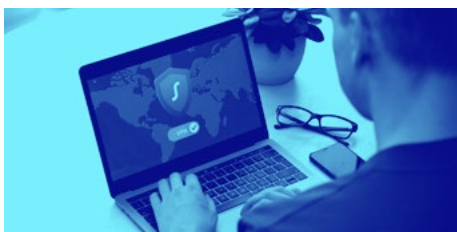
News



(Photo: Yan Krukau / Pexels)

Barcelona's first Congress of Feminist Economics will bring together more than 400 participants from 50 countries

Digital Commons (Dimmons)



(Photo: Dan Nelson / unsplash.com)

By 2025 the worldwide cost of cyberattacks will have tripled compared to 2015

K-ryptography and Information Security for Open Networks



(Photo: ThisisEngineering RAEng / unsplash.com)

Not blaming women is key to increasing their presence in tech professions

Gender and ICT (GenTIC)



(Photo: Fotis Fotopoulos)

Diana Roig, awarded as the selected academic by the Academia Joven de España

Global Literary Studies Research Lab (GloaLS)

News



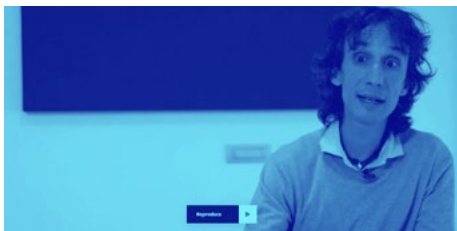
(Photo: Detalle del panel de control, UOC)

New UOC AI system lets the university monitor online students at risk of dropping out
Systems, Software and Models Research Lab ((SOM) RESEARCH LAB)



(Photo: Kelly Sikkema/Unsplash)

A European project publishes two handbooks for designing inclusive parks and play areas for children with autism
Urban Transformation and Global Change Laboratory (TURBA Lab)



Professor Xavier Vilajosana awarded ICREA Acadèmia grant
Wireless Networks (WiNe)



(Photo: Lina Vanesa López Ortiz, UOC)

The UOC's new research hub hosts eight specialized laboratories in a collaborative and interdisciplinary environment
Internet Interdisciplinary Institute (IN3)

06



Impact
and presence

Impact and presence

Website

[Internet Interdisciplinary Institute \(IN3\) website](#). Since 2016.

News items



31

Social media

X (formerly Twitter) [@IN3_UOC](#). Since 2010.

Followers



4,079

(219 more than in 2022)

Tweets



470

Retweets



831

Likes



1,694

Impact and presence

Social media

IN3 YouTube channel ([Internet Interdisciplinary Institute](#)). Since 2010.

172 videos,
of which **30** were
published in 2023

172



**Views of videos published
in 2023**

3,118+

IN3 *Keep Updated!* (newsletter). Since 2018.

Newsletters
sent out in 2023



23



Subscribers

400+

Impact and presence

Media*

The IN3 appeared in

News items



724



Audience impact

85 m+

(in the national media)

Articles in *The Conversation*



3

By IN3 researchers with
18.8m impressions.

*These figures are indicative, corresponding only to items that explicitly mentioned the IN3. It does not include items linking the researcher to the UOC but not the research centre to which they are affiliated.

07



Awards and
accolades

Awards and accolades

Awards

Serra de Tramuntana Research Award 2023

The project “*El Paisatge Cultural forestal. La Serra de Tramuntana com a patrimoni col·lectiu*”, by [Dr Maria Cifre Sabater](#), a postdoctoral researcher with the [Care and Preparedness in the Network Society \(CareNet\)](#) research group, received the **2023 Serra de Tramuntana Research Prize** awarded by the **Serra de Tramuntana Consortium Committee of Experts**. It recognizes projects related to the cultural landscape of the Serra de Tramuntana mountain range, highlighting its world heritage status.

Museari Teaching Award

[Dr Asun Pié](#), a researcher with the [Care and Preparedness in the Network Society \(CareNet\)](#) research group and associate professor in the UOC’s **Faculty of Psychology and Education Sciences**, received the **2023 Museari Teaching Award** from the [Museari Online Museum](#). The award recognizes the work of professionals, institutions and groups in the defence of human rights and sexual diversity.

Awards and accolades

Awards

Award for the Best Doctoral Contribution in Open Science

Marta Roqueta Fernández, predoctoral researcher with the Gender and ICT (GenTIC) research group, received the Prize for the Best Doctoral Contribution in Open Science awarded by the UOC Open Science unit and the UOC Doctoral School on the occasion of the **2023 International Open Access Week**. She is developing her thesis, entitled *NETWORKED FEMINISMS ECOLOGIES. A Comparative Analysis of the Activist Groups of #OnSónLesDones and Las Kellys*” under the UOC’s **Doctoral Programme in the Information and Knowledge Society**, directed by Dr Milagros Sáinz Ibáñez and Dr Jorg Müller from the GenTIC group.

New Full Member of the Academia Joven de España

Prof. Diana Roig-Sanz, ICREA research professor and coordinator of the Global Literary Studies Research Lab (GlobaLS), was one of 10 academics admitted in 2023 as Full Academicians of the Academia Joven de España and received its medal at the ceremony welcoming the new members. The Academia Joven de España, which brings together 50 of the best researchers in Spain, recognizes outstanding researchers in many areas.

Awards and accolades

Accolades

Dr Nizaiá Cassián Ydé, member of the UOC's Faculty of Psychology and Education Sciences and postdoctoral researcher with the **Care and Preparedness in the Network Society (CareNet)** research group, was awarded the M. Encarna Sanahuja Yll Mention in the *Jaume Vicens Vives* distinctions awarded by the **Government of Catalonia**. The mention recognizes excellence in the inclusion of the gender perspective in university teaching practice.

Prof. Hug March, postdoctoral researcher with the **Urban Transformation and Global Change Laboratory (TURBA Lab)** research group, and **Prof. Xavier Vilajosana**, co-director of the **Wireless Networks (WiNe)** research group, were two of the most cited scientists of 2022 according to the **World Scientist Ranking of the World's Top 2% Scientists**. The ranking, drawn up by Stanford University, Elsevier and SciTech Strategies, recognizes the scientists whose work is among the most cited in the year.

Prof. Xavier Vilajosana, co-director of the **Wireless Networks (WiNe)** research group, was appointed **Vice Rector for Research, Knowledge Transfer and Entrepreneurship** at the UOC.

01

Appendix 1.
Scientific
publications

Appendix 1. Scientific publications

Artificial Intelligence and Data for Society (AID4So)

Articles

Alvarez Gonzalez, N., Kaltenbrunner, A. & Gómez, V. (2023). Beyond Weisfeiler-Lehman with Local Ego-Network Encodings. *Machine Learning and Knowledge Extraction*, 5(4), 1-32. DOI: 10.3390/make5040063.

Betti, L., Abrate, C. & Kaltenbrunner, A. (2023). Large scale analysis of gender bias and sexism in song lyrics. *EPJ Data Science*, 12 (1), 10. 2023

Book chapters

Betti, L., Abrate, C., Bonchi, F. & Kaltenbrunner, A. (2023). Relevance-based Infilling for Natural Language Counterfactuals. In *Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM '23)* (pp. 88-98). DOI: 10.1145/3583780.3615029

Appendix 1. Scientific publications

Care and Preparedness in the Network Society (CareNet)

Articles

Alegre-Agís, E., García-Santesmases Fernández, A., Pié Balaguer, A., Martínez Hernández, A., Bekele, D., Morales-Sáez, N. & Serrano-Miguel, M. (2023). [Unraveling Reactionary Care: the Experience of Mother-Caregivers of Adults with Severe Mental Disorders in Catalonia](#). *Culture, Medicine, and Psychiatry*, 47(3), 790-813. DOI: 10.1007/s11013-022-09788-z. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Beneito-Montagut, R., Begueria Muñoz, A. & Cassián Yde, N. (2023). [The social connectedness of digital practices in later life: It's not just about learning, it's all about relationships](#). *Sociological Review*, 71(3), 581-600. DOI: 10.1177/00380261221144154. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Cela Bertrán, X., Peguero, G., Serral, G., Sánchez-Ledesma, E., Martínez-Hernández, A. & Pié Balaguer, A. (2023). [Understanding the relationship between gender and mental health in adolescence: the Gender Adherence](#)

[Index \(GAI\)](#). *European Child & Adolescent Psychiatry*, 33, 229–240. DOI: 10.1007/s00787-023-02150-7. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

García-Santesmases Fernández, A., López Gómez, D. & Pié Balaguer, A. (2023). [Being just their hands? Personal assistance for disabled people as bodywork](#). *Sociology of Health and Illness*, 45(6), 1334-1353. DOI: 10.1111/1467-9566.13567. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Jiménez-Alonso, B. & Brescó de Luna, I. (2023). [Griefbots. A New Way of Communicating With The Dead?](#) *Integrative Psychological and Behavioral Science*, 57, 466–481. DOI: 10.1007/s12124-022-09679-3.

Máiz-Mazuela, C., Medina-Perucha, L., Berenguera, A., López-Jiménez, T., Rodríguez Giral, I., Cerezo-Sepúlveda, P. & Jacques Aviñó, C. (2023). [Essential Workers Balancing Life and Work during the COVID-19 Syndemic in Spain: A Qualitative and Gender-Based Study](#). *Health & Social Care in the Community*, 1-15. DOI:

10.1155/2023/1124583. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Sánchez Criado, T. (2023). [Editorial Response to Issue 32\(1\) on Materialities of Age & Ageing. Reassembling Ageing, Ecologising Care?](#). *Anthropological Journal of European Cultures*, 32(2), V-XII. DOI: 10.3167/ajec.2023.320201. Quartile: SCOPUS SJR: Q2..

Book chapters

Arenas-Conejo, M. & García, I. (2023). [Theoretical principles and design guidelines for inclusive and feminist online education](#). In Triviño Cabrera, L. & Jiménez Cortés, R. (Ed.). *Technologies, multimodality and media culture for gender equality. Advancing in digital transformation of education* (pp. 15-39). Editorial Dykinson.

Beneito-Montagut, R., García-Santesmases Fernández, A. & López Gómez, D. (2023). [Technological ageism in a sheltered housing for older adults. An intersectional approach](#).

Appendix 1. Scientific publications

Care and Preparedness in the Network Society (CareNet)

In Fernández Ardèvol, M., Svensson, J. & Rosales, A. (Ed.). *Digital Ageism. How it Operates and Approaches to Tackling it* (pp. 172-191). Routledge. DOI: 10.4324/9781003323686-10.

Correa-Urquiza, M., Pié Balaguer, A., Coll-Florit, M., Hernández-Encuentra, E. & Climent Roca, S. (2023). **Orgullo loco y metáforas para una disidencia: un análisis lingüístico y simbólico.** In Alejandro Bravo, O. (Ed.). *Aportes teóricos y prácticos para una salud mental alternativa* (pp. 249-274). Editorial Universidad Icesi (*In collaboration with the Interinstitutional research group in linguistic applications (GRIAL) and the UOC's Behavioural Design Lab (BDLab) research group*).

Estalella, A. & Sánchez Criado, T. (2023). **Introduction. The Ethnographic Invention.** In Sánchez-Criado, T. & Estalella, A. (Ed.). *An Ethnographic Inventory: Field devices for anthropological inquiry* (pp. 1-14). Routledge. DOI: 10.4324/9781003253709-1.

Farías, I. & Sánchez Criado, T. (2023). **How to game ethnography.** In Sánchez-Criado, T. y Estalella, A. (Ed.). *An Ethnographic Inventory: Field devices for anthropological inquiry* (pp. 102-111). Routledge. DOI: 10.4324/9781003253709-11.

Jiménez-Alonso, B. & Brescó de Luna, I. (2023). **Can Artificial Intelligence Help to Prepare Us for Death? Ethical Questions about Grief and End-of-Life Chatbots.** In Caballe, S., Conesa, J. & Casas, J. (Ed.). *Technology, Users, and Uses: Ethics and Human Interaction Through Technology and AI* (pp. 235-258). Ethics International Press.

Pié Balaguer, A. (2023). **Prólogo. Un lugar para lo indómito.** In Almeida, M. E., Arbuét Osuna, C. & Angelino, A. (Ed.). *Discapacidad, teoría tullida y autoridad narrativa. Resistir la normalidad* (pp. 13-19). Universidad Nacional de Entre Ríos.

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(Ed.). *An Ethnographic Inventory: Field devices for anthropological inquiry* (pp. 222-230). Routledge. DOI: 10.4324/9781003253709-23.

Serrano-Miguel, M., Pié Balaguer, A. & Alegre-Agís, E. (2023). **Cuidados en red: transformaciones y retos de la atención social en salud mental.** In Garcés Ferrer, J., Lacomba Vázquez, J., Ródenas Rigla, E., Mut MontalvÀ, E. & Pérez Cosín, J. V. (ed.). *Trabajo social en la sociedad contemporánea. Ética, cuidado y digitalización* (pp. 287-308). Tirant Humanidades.

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Sánchez Criado, T. & Estalella, A. (2023). ***An Ethnographic Inventory: Field Devices for Anthropological Inquiry.*** Routledge. DOI: 10.4324/9781003253709.

Appendix 1. Scientific publications

Communication Networks & Social Change (CNSC)

Articles

Aldrete, M. (2023). Challenging the protest paradigm and winning legitimacy. Analysis of the representation of the social movement against femicide in the mainstream media in Mexico. *Current Sociology*, 0(0). DOI: 10.1177/00113921231211578. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Aldrete, M. (2023). Femicide in Mexico. Who Are the Slain Women According to News Media? A Quantitative Study of Social Representations of Victims and Perpetrators. *Violence Against Women*, 0(0). DOI: 10.1177/10778012231174346.

Borge, R., Balcells Padullés, J. & Padró-Solanet, A. (2023). Democratic Disruption or Continuity? Analysis of the Decidim Platform in Catalan Municipalities. *American Behavioral Scientist*, 67(7), 926-939. DOI: 10.1177/00027642221092798. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1 (in collaboration with the eGovernance: electronic administration and democracy (GADE) research group).

Borge, R., Boulianne, S., Dennis, J., Vaccari, C. & Valeriani, A. (2023). Political participation in the digital technology era: a symposium on Outside the Bubble: Social Media and Political Participation in Western Democracies By Cristian Vaccari and Augusto Valeriani. *Italian Political Science Review / Rivista Italiana di Scienza Politica*, 53(2), 273-291. DOI: 10.1017/ipo.2022.30. Quartile: SCOPUS SJR: Q2.

Chamorro-Padial, J., Cozzo, E. & Calleja-López, A. (2023). Decidim. viz: A data dashboard prototype for a digital democracy platform. *SoftwareX*, 25, 101600. DOI: 10.1016/j.softx.2023.101600. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Fernández-Ardèvol, M. & Aldrete, M. (2023). Framing femicide in the news, a paradoxical story: A comprehensive analysis of thematic and episodic frames. *Crime, Media, Culture*, 0(0). DOI: 10.1177/17416590231199771. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Fernández-Ardèvol, M. & Ribera-Fumaz, R. (2023). The Network Society Today. *American Behavioral Scientist*, 67(7), 839-846. DOI: 10.1177/00027642221092800. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1 (in collaboration with the IN3 Urban Transformation and Global Change Laboratory (TURBA Lab) research group).

Fernández-Ardèvol, M., Rosales Climent, A. & Morey Cortès, F. (2023). Set in Stone? Mobile Practices Evolution in Later Life. *Media and Communication*, 11(3), 40-52. DOI: 10.17645/mac.v11i3.6701. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Jiménez González A. & Cancela Rodríguez E. (2023). ¿Es posible gobernar a las plataformas digitales? Análisis crítico de la Ley Europea de Servicios Digitales. *Teknokultura. Revista de Cultura Digital y Movimientos Sociales*, 20(1), 91-99. DOI: 10.5209/tekn.82074. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Appendix 1. Scientific publications

Communication Networks & Social Change (CNSC)

Marichal, S., Rosales Climent, A., González Perilli, F., Pires, A. C. & Blat, J. (2023). **Auditory and haptic feedback to train basic mathematical skills of children with visual impairments.** *Behaviour & Information Technology*, 42(8), 1081-1109. DOI: 10.1080/0144929X.2022.2060860. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q2.

Roqueta-Fernández, M. & Cozzo, E. (2023). **The Impact of Spanish Repression on the Evolution of the Catalan Networked Public Sphere During the Post-Referendum Crisis (2017–2022).** *Ethnopolitics*, 1–22. DOI: 10.1080/17449057.2023.2275886 (in collaboration with the IN3 Gender and ICT (GenTIC) research group).

Sáenz-Leandro, R. (2023). **Platforms, Politics, and Policy Change: Framing A Governance Approach to TNCs in the Gig Economy.** *RIPS: Revista de Investigaciones Políticas y Sociológicas*, 22(2). DOI: 10.15304/rips.22.1.9463. Quartile: SCOPUS SJR: Q1.

Suárez Gonzalo, S. & Feenstra, R. (2023). **¿Ciudadanía vigilada o monitorización ciudadana? Dos aproximaciones opuestas a la relación entre tecnología y democracia.** *Athenea Digital: Revista de Pensamiento e Investigación Social*, 23(2), 1-21. DOI: 10.5565/REV/ATHENEA.3432. Quartile: SCOPUS SJR: Q3..

Suárez-Gonzalo, S. & López-Gabrielidis, A. (2023). **Our data bodies. Re-framing our conceptual and normative relationship with personal data.** *AoIR Selected Papers of Internet Research*, 2022. DOI: 10.5210/spir.v2022i0.13091.

Suárez-Gonzalo, S. (2023). **Soberanía digital: un debate abierto y tres problemas políticos.** *Quaderns de Filosofia*, 10(2). Quartile: ISI JCR: Q3 | SCOPUS SJR: Q3.

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Balcells Padullés, J., Borge, R. & Padró-Solanet, A. (2023). **Expanding Participatory Governance through Digital Platforms? Drivers and Obstacles in the Implementation of the Decidim Platform.** In Bussu, S. y Bua, A. (Ed.). *Reclaiming Participatory Governance. Social Movements and the Reinvention of Democratic Innovation* (pp. 191-208). Routledge (in collaboration with the eGovernance: electronic administration and democracy (GADE) research group).

Fernández-Ardèvol, M. (2023). **Conclusion: Production, transmission and reproduction of ageist practices.** In Rosales, A., Svensson, J. y Fernández Ardèvol, M. (Ed.). *Digital Ageism. How it Operates and Approaches to Tackling it* (pp. 266-280). Routledge.

Kabir, F., Megías, D. & Koohpayeh Araghi, T. (2023). **WaterCrypt: Joint Watermarking and Encryption Scheme for Secure Privacy-Preserving Data Aggregation in Smart Metering Systems.** In Sousa, M. J., Rocha, A.,

Appendix 1. Scientific publications

Communication Networks & Social Change (CNSC)

Ullah, A. y Anwar, S. (Ed.). *Proceedings of International Conference on Information Technology and Applications. Lecture Notes in Networks and Systems*, 614, (pp. 547-556). Springer. DOI: 10.1007/978-981-19-9331-2_47 (in collaboration with the IN3 K-ryptography and Information Security for Open Networks (KISON) research group).

Araghi, T. K., Megías, D. & Rosales, A. (2023). **Evaluation and Analysis of Reversible Watermarking Techniques in WSN for Secure, Lightweight Design of IoT Applications: A Survey.** In Arai, K. (Ed.). *Advances in Information and Communication. FICC 2023. Lecture Notes in Networks and Systems*, 652 (pp. 695–708). Springer. DOI: 10.1007/978-3-031-28073-3_47 (in collaboration with the K-ryptography and Information Security for Open Networks (KISON) research group).

Araghi, T. K., Megías, D. & Rosales, A. (2023). **Toward the Selection of a Lightweight Authentication Technique for the Security of Smart Homes: Framework Architecture Based on a User Centric Design.** In Arai, K. (Ed.) *Intelligent Computing. SAI 2023. Lecture Notes in Networks and Systems*, 711, (pp. 651–667). Springer. DOI: 10.1007/978-3-031-37717-4_42 (in collaboration with the K-ryptography and Information Security for Open Networks (KISON) research group).

Leal García, D., Calleja-López, A. & Linares-Lanzman, J. (2023). **Collective intelligence and digital participatory platforms. Learnings from Barcelona's Decidim.** In Paulson, L., Hallin, C. A. & Boucher, S. (Ed.). *The Routledge Handbook of Collective Intelligence for Democracy and Governance* (pp. 326-338). Routledge.

Rosales Climent, A., Svensson, J. & Fernández-Ardèvol, M. (2023). **Digital ageism in data societies.** In Fernández-Ardèvol, M., Svensson, J. & Rosales, A. (Ed.). *Digital Ageism. How it Operates and Approaches to Tackling it* (pp. 1-17). Routledge.

Stypinska, J., Rosales Climent, A. & Svensson, J. (2023). **Silicon Valley ageism - ideologies and practices of expulsion in the technology industry.** In Fernández-Ardèvol, M., Svensson, J. & Rosales, A. (Ed.). *Digital Ageism. How it Operates and Approaches to Tackling it* (pp. 53-70). Routledge.

Books

Cancela, E. (2023). *Utopías digitales: imaginar el fin del capitalismo.* Verso.

Rosales Climent, A., Fernández-Ardèvol, M. & Svensson, J. (2023). **Digital Ageism. How it Operates and Approaches to Tackling it.** Routledge.

Appendix 1. Scientific publications

Complex Systems @ IN3 (CoSIN3)

Articles

Dehshibi, M. M., Ashtari-Majlan, M., Adhane, G. W. & Masip, D. (2023). **ADVISE: ADaptive feature relevance and VISual Explanations for convolutional neural networks.** *The Visual Computer*. DOI: 10.1007/s00371-023-03112-5. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Rhoads, D., Rames, C., Solé-Ribalta, A., González, M. C., Szell, M. & Borge-Holthoefer, J. (2023). **Sidewalk networks: Review and outlook.** *Computers, Environment and Urban Systems*, 106, 1-16. DOI: 10.1016/j.compenvurbsys.2023.102031. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Rhoads, D., Solé-Ribalta, A. & Borge-Holthoefer, J. (2023). **The inclusive 15-minute city: Walkability analysis with sidewalk networks.** *Computers, Environment and Urban Systems*, 100, 1-11. DOI: 10.1016/j.compenvurbsys.2022.101936. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Appendix 1. Scientific publications

Digital Commons (Dimmons)

Articles

Soro, E., Espelt, R. & Fuster Morell, M. (2023). **Making sense of platform-mediated residences in tourist destinations**. A semiotic analysis of the controversy around home sharing in Barcelona. *Social Semiotics*, 1-18. DOI: 10.1080/10350330.2023.2190454. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Senabre-Hidalgo, E. & Greshake Tzovaras, B. (2023). **'One button in my pocket instead of the smartphone' - A methodological assemblage connecting self-research and autoethnography in a digital disengagement study**. *Methodological Innovations*, 16(2), 149-162. DOI: 10.1177/20597991231161093. Quartile: SCOPUS SJR: Q1.

Book chapters

Fuster Morell, M., Vega-Rodríguez, N. & Espelt, R. (2023). **La digitalización feminista de la Economía Social en Barcelona**. *XIX Congreso Internacional de Investigadores en Economía Social y Cooperativa* (pp. 1-18). València: CIRIEC.

Fuster Morell, M., Renau Cano, M. & Espelt, R. (2023). **Democratizzare l'economia di piattaforma**. In Pirone, M. (Ed.). *Ultimo miglio. Lavoro di piattaforma e conflitti urbani* (pp. 55-72). Fondazione G. Feltrinelli.

Galán, S. & Abdelmonem, A. (2023). **From the Streets to the Campus: The Institutionalization of Youth Anti-Sexual Harassment Activism in Post-Coup Egypt**. In Lovin, C. L. y Rivers, I. (Ed.). *Young People Shaping Democratic Politics: Interrogating Inclusion, Mobilising Education* (pp. 83-108). Palgrave Macmillan.

Appendix 1. Scientific publications

K-ryptography and Information Security for Open Networks (KISON)

Articles

Casas-Roma, J. (2023). [An evaluation of vertex and edge modification techniques for privacy-preserving on graphs](#). *Journal of Ambient Intelligence and Humanized Computing*, 14(11), 15109-15125. DOI: 10.1007/s12652-019-01363-6. Quartile: SCOPUS SJR: Q1.

Chen, D., Navarro-Arribas, G., Pérez-Solà, C. & Borrell Viader, J. (2023). [Message anonymity on predictable opportunistic networks](#). *Journal of Ambient Intelligence and Humanized Computing*, 14(11), 15059-15072. DOI: 10.1007/s12652-019-01393-0. Quartile: SCOPUS SJR: Q1.

Fakolujo O. & Qureshi A. [Analysis of Detection Systems in a Software-Defined Network](#). In Arai, K. (Ed.). *Intelligent Computing*. Lecture Notes in Networks and Systems, 739, Springer. DOI: 10.1007/978-3-031-37963-5_91.

Iturbe Araya, J. I. & Rifà Pous, H. (2023). [Anomaly-based cyberattacks detection for smart homes: A systematic literature review](#). *Internet of Things*, 22, 1-28. DOI: 10.1016/j.iot.2023.100792. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Marquès, J., Rifà Pous, H. & Oukemeni, S. (2023). [From False-Free to Privacy-Oriented Communitarian Microblogging Social Networks](#). *ACM Transactions on Multimedia Computing, Communications, and Applications*, 19(2s), 1-23. DOI: 10.1145/3555354. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1 (in collaboration with the IN3 Wireless Networks (WiNe) research group).

Megías, D. & Lerch-Hostalot, D. (2023). [Subsequent embedding in targeted image steganalysis: Theoretical framework and practical applications](#). *IEEE Transactions on Dependable and Secure Computing*, 20(2), 1403-1421. DOI: 10.1109/TDSC.2022.3154967. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Salas-Piñón, J. (2023). [Sanitizing and measuring privacy of large sparse datasets for recommender systems](#). *Journal of Ambient Intelligence and Humanized Computing*, 14(11), 15073-15084. DOI: 10.1007/s12652-019-01391-2. Quartile: SCOPUS SJR: Q1.

Articles in conference proceedings

Bañeres, D., Guerrero-Roldán, A. E., Rodríguez-González, M. E., Baró Solé, X. & Prieto-Blázquez, J. (2023). [Improving the online assessment in higher education with a trustworthy system based on authorship and authentication](#). In *AIP Conference Proceedings*, 2939(1), 1-20. DOI: 10.1063/5.0179420 (in collaboration with the IN3 Systems, Software and Models Research Lab (SOM Research Lab); the UOC's Technology-Enhanced Knowledge and Interaction Group (TEKING); and the UOC's Artificial Intelligence for Human Well-being (AIWELL) group).

Appendix 1. Scientific publications

K-ryptography and Information Security for Open Networks (KISON)

Demirag, D., Namazi, M., Ayday, E. & Clark, J. (2023). **Privacy-Preserving Link Prediction**. In Garcia-Alfaro, J., Navarro-Arribas, G. y Dragoni, N. (Ed.). *Data Privacy Management, Cryptocurrencies and Blockchain Technology. Lecture Notes in Computer Science*, 13619, 35-50. DOI: 10.1007/978-3-031-25734-6_3. Quartile: SCOPUS SJR: Q3.

González-Zelaya, V., Salas-Piñón, J., Prangle, D. & Missier, P. (2023). **Preprocessing Matters: Automated Pipeline Selection for Fair Classification**. *Modeling Decisions for Artificial Intelligence. MDAI 2023. Lecture Notes in Computer Science*, 13890, 202-2013. DOI: 10.1007/978-3-031-33498-6_14. Quartile: SCOPUS SJR: Q3.

Paul, Sudipta, Salas-Piñón, J. & Torra, V. (2023). **Edge Local Differential Privacy for Dynamic Graphs**. *Security and Privacy in Social Networks and Big Data. Lecture Notes in Computer Science*, 14097, 224-238. DOI: 10.1007/978-981-99-5177-2_13. Quartile: SCOPUS SJR: Q3.

Salas-Piñón, J., González-Zelaya, V., Torra, V. & Megías, D. (2023). **Differentially Private Graph Publishing Through Noise-Graph Addition**. *Modeling Decisions for Artificial Intelligence. Lecture Notes in Computer Science*, 13890, 253-264. DOI: 10.1007/978-3-031-33498-6_18. Quartile: SCOPUS SJR: Q3.

Salas-Piñón, J., Torra, V. & Megías, D. (2023). **Towards Measuring Fairness for Local Differential Privacy**. *Data Privacy Management, Cryptocurrencies and Blockchain Technology. Lecture Notes in Computer Science*, 13619, 19-34. DOI: 10.1007/978-3-031-25734-6_2. Quartile: SCOPUS SJR: Q3.

Book chapters

Kabir, F., Megías, D. & Koochpayeh Araghi, T. (2023). **WaterCrypt: Joint Watermarking and Encryption Scheme for Secure Privacy-Preserving Data Aggregation in Smart Metering Systems**. In Sousa, M. J., Rocha, A., Ullah, A. & Anwar, S. (Ed.). *Proceedings of International Conference on Information Technology and Applications. Lecture Notes in Networks and Systems*, 614, (pp. 547-556). Springer. DOI: 10.1007/978-981-19-9331-2_47 (in collaboration with the IN3 Communication Networks & Social Change (CNSC) research group).

Araghi, T. K., Megías, D. & Rosales, A. (2023). **Evaluation and Analysis of Reversible Watermarking Techniques in WSN for Secure, Lightweight Design of IoT Applications: A Survey**. In Arai, K. (Ed.). *Advances in Information and Communication. FICC 2023. Lecture Notes in Networks and Systems*, 652 (pp. 695-708). Springer. DOI: 10.1007/978-3-031-28073-3_47 (in collaboration with the IN3 Communication Networks & Social Change (CNSC) research group).

Appendix 1. Scientific publications

K-ryptography and Information Security for Open Networks (KISON)

Araghi, T. K., Megías, D. & Rosales, A. (2023). **Toward the Selection of a Lightweight Authentication Technique for the Security of Smart Homes: Framework Architecture Based on a User Centric Design.** In Arai, K. (Ed.). *Intelligent Computing. SAI 2023. Lecture Notes in Networks and Systems*, 711 (pp. 651–667). Springer. DOI: 10.1007/978-3-031-37717-4_42 (in collaboration with the IN3 Communication Networks & Social Change (CNSC) research group).

Lerch-Hostalot, D. & Megías, D. (2023). **Real-world actor-based image steganalysis via classifier inconsistency detection.** In *Proceedings of the 18th International Conference on Availability, Reliability, and Security. ARES 23*, (pp. 1-9). Association for Computing Machinery. DOI: 10.1145/3600160.3605042.

Paul, S., Salas, J. & Torra, V. (2023). **Edge Local Differential Privacy for Dynamic Graphs.** In Arief, B., Monreale, A., Sirivianan, M. y Li, S. (Ed.). *Security and Privacy in Social Networks and Big*

Data. SocialSec 2023. Lecture Notes in Computer Science, 14097 (pp. 224-238). Springer. DOI: 10.1007/978-981-99-5177-2_13.

Rahmanikivi Bahran, M., Pérez-Solà, C. & Garcia-Font, V. (2023). **An Empirical Analysis of Running a Bitcoin Minimal Wallet on an IoT Device.** In Garcia-Alfaro, J., Navarro-Arribas, G., Dragoni, N. (Ed.). *Data Privacy Management, Cryptocurrencies and Blockchain Technology. Lecture Notes in Computer Science*, 13619 (pp 169-184). Springer. DOI: 10.1007/978-3-031-25734-6_11.

Thankappan, M., Rifa Pous, H. & Garrigues, C. (2023). **Multi-channel Man-in-the-Middle Attacks Against Protected Wi-Fi Networks and Their Attack Signatures.** In Mercier-Laurent, E., Fernando, X. y Chandrabose, A. (Ed.). *Computer, Communication, and Signal Processing. AI, Knowledge Engineering and IoT for Smart Systems, IFIP Advances in Information and Communication Technology*, 670 (pp. 269-285). Springer. DOI: 10.1007/978-3-031-39811-7_22.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Articles

- Cacace, M., Pugliese, F., Tzanakou, C., Müller, J., Denis, A. & Sangiuliano, M. (2023). [Certifying complexity? The case of a European gender equality certification scheme for research-performing organizations.](#) *Science and Public Policy*, 51(2), 261-273. DOI: 10.1093/scipol/scad069. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q2.
- Chandanabhumma, P., Fàbregues, S., Oetzel, J., Duran, B. & Ford, C. (2023). [Examining the influence of group diversity on the functioning of community-based participatory research partnerships: A mixed methods study.](#) *American Journal of Community Psychology*, 71(1-2), 242-254. DOI: 10.1002/ajcp.12626. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Castelló, E. & Romano, M. J. (2023). [Shepherdesses: new representations of rural women in Spain.](#) *Feminist Media Studies*, 23(4), 1659–1675. DOI: 10.1080/14680777.2021.1992646. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.
- Fàbregues, S., Sáinz, M., Romano, M. J., Escalante-Barrios, E. L., Younas, A. i López-Pérez, B. S. (2023). [Use of mixed methods research in intervention studies to increase young people's interest in STEM: A systematic methodological review.](#) *Front. Psychol.*, 13 13:956300. DOI: 10.3389/fpsyg.2022.956300. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q2.
- Fresán, U., Bernard, P., Fàbregues, S., Boronat, A., Araújo-Soares, V., König, L. & Chevance, G. (2023). [A Smartphone Intervention to Promote a Sustainable Healthy Diet: Protocol for a Pilot Study.](#) *JMIR Research Protocols*, 12, 1-17. DOI: 10.2196/41443. Quartile: SCOPUS SJR: Q2.
- Guetterman, T., Molina Azorín, J. F. & Fàbregues, S. (2023). [The Need to Rigorously Develop Common Quality Guidelines for Reporting Mixed Methods Research.](#) *Journal of Mixed Methods Research*, 17(1), 6-11. DOI: 10.1177/15586898221143561. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Kalpazidou Schmidt, E., Palmén, R. & Bühner, S. (2023). [Policy-making and evaluation of gender equality programmes: Context, power, and resistance in the transformation process.](#) *Science and Public Policy*, 50(2), 206-218. DOI: 10.1093/scipol/scac064.
- Melián, E., Reyes, J. I. & Meneses, J. (2023). [The online PhD experience: A qualitative systematic review.](#) *The International Review of Research in Open and Distributed Learning*, 24(1), 137-158. DOI: 10.19173/irrodl.v24i1.6780.
- Müller, J. (2023). [Challenges and Opportunities for Building Alliances for Greater Gender Equality. A Commentary on the Symposium “Don't Fix Women, Fix Academia? Gender Inequality in National Academic Contexts”.](#) *Sociologica. International Journal for Sociological Debate*, 17(2), 125-130. DOI: 10.6092/issn.1971-8853/18242.

Appendix 1. Scientific publications

Gender and ICT (GenTIC)

Peters, M. J. & Fàbregues, S. (2023). **Missed opportunities in mixed methods ed-tech research? Illustrative example of meta-joint Display development as a mixed methods analytical technique.** *Educational Technology Research and Development*, 1-21. DOI: 10.1007/s11423-023-10234-z.

Petroff, A. & Fierro, J. (2023). **Crowd work in STEM-related fields: A window of opportunity from a gender perspective.** *Sociology Compass*, 17(3), 1-17. DOI: 10.1111/soc4.13058.

Pujol-Busquets, G., Smith, J., Fàbregues, S., Bach Faig, A. & Larmuth, K. (2023). **Community Assessment for a Low-Carbohydrate Nutrition Education Program in South Africa.** *Nutrients*, 15(1), 1-14. DOI: 10.3390/nu15010067 (in collaboration with the UOC's interdisciplinary research group on food, nutrition, society, and health (FoodLab)).

Reyes, J. I., Meneses, J. & Xavier, M. (2023). **Suitability of Online Higher Education for Learners with Disabilities: The Students' Voices.** *Journal of Special Education Technology*, 38(3), 370-383. DOI: 10.1177/01626434221131772.

Roqueta-Fernàndez, M., & Caldeira, S. P. (2023). **Situating #MeToo: a comparative analysis of the movement in Catalonia and Portugal.** *Media, Culture & Society*, 45(7), 1435-1452. DOI: 10.1177/01634437231179351.

Roqueta-Fernàndez, M., & Cozzo, E. (2023). **The Impact of Spanish Repression on the Evolution of the Catalan Networked Public Sphere During the Post-Referendum Crisis (2017–2022).** *Ethnopolitics*, 1–22. DOI: 10.1080/17449057.2023.2275886 (in collaboration with the Communication Networks & Social Change (CNSC) research group).

Sáinz, M. & Malpica-Lander, C. (2023). **Gender gaps in the evaluation of academic abilities and their role in shaping study CHOICES.**

Educational Studies, 1-19. DOI: 10.1080/03055698.2023.2210713.

Sáinz, M., Upadyaya, K. & Fàbregues, S. (2023). **Editorial: Initiatives to raise young people's interest and participation in STEM.** *Frontiers in Psychology*, 14, 1-2. DOI: 10.3389/fpsyg.2023.1151715.

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Younas, A., Fàbregues, S., Durante, A., Escalante-Barrios, E. L., Inayat, S. & Ali, P. (2023). **Proposing the “MIRACLE” Narrative Framework for Providing Thick Description in Qualitative Research.** *International Journal of Qualitative Methods*, 22, 1-13. DOI: 10.1177/16094069221147162.

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Gender and ICT (GenTIC)

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Di Tullio, A., Smiraglia, R. & Penchansky, C. (2023). **Introducción: Repensar lo político desde los feminismos.** In Di Tullio, A., Smiraglia, R. & Penchansky, C. (Ed.). *Feminismos y Política II. Educación, Cultura y Memoria* (pp. 172-191). ConTexto.

Fàbregues, S., Escalante-Barrios, E. L., Toraman Turk, Sinem, Guetterman, T. & Fetters, M. D. (2023). **Assessing quality in mixed methods research:**

Concepts, frameworks, and criteria.

In Golenko X. y Cameron, R. (Ed.). *Handbook of mixed methods research in business and management* (pp. 76-93). Edward Elgar Publishing. DOI: 10.4337/9781800887954.00013.

Fàbregues, S. & Molina Azorín, J. F. (2023). **Evolving tensions and conversations in mixed methods research design approaches: Section 1 introduction.** In Poth, C. (Ed.). *The Sage Handbook of Mixed Methods Research Design* (pp. 17-20). SAGE Publications.

Garrido, N. (2023). **Modelos de Grafos Aleatorios Exponenciales (ERGMs): posibilidades de aplicación y ejemplos prácticos.** In Ortiz Ruiz, F. y Espinosa-Rada, A. (Eds.). *Redes Sociales: teoría, métodos y aplicaciones en América Latina* (pp. 221-238). Centro de Investigaciones Sociológicas.

Guyan, K., Aldercotte, A., Müller, J., Caprile, M. & Yanes Torrado, S. (2023). **The development of the gender equality audit and monitoring survey.** In Müller, J. y Palmén, R. (Ed.). A

Community of Practice Approach to Improving Gender Equality in Research (pp. 44-63). Routledge.

Molina-Azorín, J. F. & Fàbregues, S. (2023). **Future tensions and design conversations in the mixed methods field: Section 1 conclusions.** In Poth, C. (Ed.). *The Sage Handbook of Mixed Methods Research Design* (pp. 91-94). SAGE Publications.

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Gender and ICT (GenTIC)

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Di Tullio, A., Smiraglia, R., Penchansky, C. (Ed.) (2023). *Feminismos y Política II. Educación, Cultura y Memoria.* ConTexto.

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Others publications

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Müller, J. & Palmén, R. (2023). **D1.2 Data Management Plan v1.** Zenodo. DOI: 10.5281/zenodo.10549134.

Palmén, R. & Inspire Project Consortium (2023). **D2.6 Policy Brief INSPIRE vision.** Zenodo. DOI: 10.5281/zenodo.10039559.

Appendix 1. Scientific publications

Global Literary Studies Research Lab (GlobalS)

Articles

Bauzá Mingueza, F., Floría, M., Gómez-Gardeñes, J., Arenas Moreno, A. & Cardillo, A. (2023). Characterization of interactions' persistence in time-varying networks. *Scientific Reports*, 13(1), 1-11. DOI: 10.1038/s41598-022-25907-7.

Mota, A. (2023). Displacement, women intellectuals and entangled knowledge in the making of global modernity. *European Journal of Social Theory*, 26(3), 354-372. DOI: 10.1177/13684310231164709.

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Campanella, L. (2023). Interzonas de política, arte y lengua. La circulación transnacional de textos literarios en la prensa anarquista rioplatense (1890-1910). In Pérez Martínez, R. y Caminada L. (Ed.). *En la Interzona: Ensayos de Estudios Culturales*. Universidad Nacional Autónoma de México.

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Fólica, L. (2023). Queneau por entregas: las traducciones intraducibles de Idea Vilariño en revistas latinoamericanas. In Larre Borges, A. I. (Ed.). *Idea Vilariño y la traducción* (pp. 127-147). Biblioteca Nacional de Uruguay.

Tanasescu, C. & Tanasescu, R. (2023). Complexity and Analytical-creative Approaches at Scale. Iconicity, Monstrosity, and #GraphPoem. In Armaselu, F. y Fickers, A. (Ed.). *Zoomland. Exploring Scale in Digital History and Humanities* (pp. 237-260). De Gruyter. DOI: 10.1515/9783111317779-010.

Appendix 1. Scientific publications

Global Literary Studies Research Lab (GlobalS)

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Appendix 1. Scientific publications

Systems, Software and Models (SOM Research Lab)

Articles

Alfonso, I., Gómez, A., Doñate, S., Garcés, K., Castro, H. & Cabot, J. (2023). **A model-based framework for IoT systems in wastewater treatment plants.** *Journal of Object Technology*, 22(2), 1-15. DOI: 10.5381/jot.2023.22.2.a10. Quartile: SCOPUS SJR: Q3.

Alfonso, I., Garcés, K., Castro, H. & Cabot, J. (2023). **A model-based infrastructure for the specification and runtime execution of self-adaptive IoT architectures.** *Computing*, 105(9), 1883-1906. DOI: 10.1007/s00607-022-01145-7. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Bañeres, D., Rodríguez-González, M. E., Guerrero-Roldán, A. E. & Cortadas, P. (2023). **An early warning system to identify and intervene online dropout learners.** *International Journal of Educational Technology in Higher Education*, 20(3), 1-25. DOI: 10.1186/s41239-022-00371-5. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1 (in collaboration with the UOC's Technology-Enhanced Knowledge and Interaction Group

(TEKING) and its Innovative Tools for elearning (GO2SIM) group).

Bañeres, D., Rodríguez-González, M. E. & Guerrero-Roldán, A. E. (2023). **A Real Time Predictive Model for Identifying Course Dropout in Online Higher Education.** *IEEE Transactions on Learning Technologies*, 16(4), 484-499. DOI: 10.1109/TLT.2023.3267275. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1 (in collaboration with the UOC's Technology-Enhanced Knowledge and Interaction Group (TEKING)).

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Cabot, J. & Clarisó, R. (2023). **Low Code for Smart Software Development.** *IEEE Software*, 40(1), 89-93. DOI: 10.1109/MS.2022.3211352. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

Cánovas Izquierdo, J. L. & Cabot, J. (2023). **For a More Transparent Governance of Open Source Seeking the best governance models for FOSS projects.** *Communications of the ACM*, 66(8), 32-34. DOI: 10.1145/3570635. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Giner-Miguel, J., Gómez, A. & Cabot, J. (2023). **A domain-specific language for describing machine learning datasets.** *Journal of Computer Languages*, 76, 1-16. DOI: 10.1016/j.cola.2023.101209. Quartile: ISI JCR: Q3 | SCOPUS SJR: Q2.

Marco-Simó, J. M., Marco-Galindo, M. J., Planas, E. & García García, M. J. (2023). **Alignment of the institutional strategy with the teaching action in the implementation of the gender perspective. Design and implementation in the case of the UOC.** *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje*, 18(4), 374-383. DOI: 10.1109/RITA.2023.3324059. Quartile: SCOPUS SJR: Q2 (in collaboration with the Universitat Politècnica de Catalunya's STEAM University Learning Research Group (EduSTEAM)).

Appendix 1. Scientific publications

Systems, Software and Models (SOM Research Lab)

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Savary-Leblanc, M., Burgueño, L., Cabot, J., Le Pallec, X. & Gérard, S. (2023). **Software assistants in software engineering: A systematic mapping study**. *Software: Practice and Experience*, 53(3), 856-892. DOI: 10.1002/spe.3170. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q2.

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Bañeres, D., Guerrero-Roldán, A. E., Rodríguez-González, M. E., Baró Solé, X. & Prieto-Blázquez, J. (2023). **Improving the online assessment in higher education with a trustworthy system based on authorship and authentication**. *AIP Conference Proceedings*, 2939(1), 1-20. DOI: 10.1063/5.0179420. (in collaboration with the K-ryptography and Information Security for Open Networks (KISON) research group; Technology-Enhanced Knowledge and Interaction Group (TEKING); and the Artificial Intelligence for Human Well-being (AIWELL) group).

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Ait-Fonollà, A., Cánovas Izquierdo, J. L. & Cabot, J. (2023). **A Tool for the Definition and Deployment of Platform-Independent Bots on Open Source Projects**. In *Proceedings of the 16th ACM SIGPLAN International Conference on Software Language Engineering* (pp. 214-219). Association of Computing Machinery. DOI: 10.1145/3623476.3623524.

Clariso, R. & Cabot, J. (2023). **Model-Driven Prompt Engineering**. In *26th International Conference on Model Driven Engineering Languages and Systems (MODELS)* (pp. 47-54). IEEE Computer Society. DOI: 10.1109/MODELS58315.2023.00020.

Clariso, R. & Hamann, Lars (2023). **International Workshop on OCL and Textual Modeling (OCL 2023)**. In *International Conference on Model Driven Engineering Languages and Systems Companion (MODELS-C)* (pp. 391-392). IEEE Computer Society. DOI: 10.1109/MODELS-C59198.2023.00070.

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Gómez, A., Joubert, C. & Cabot, J. (2023). **Blockchain Technologies in the Design and Operation of Cyber-Physical Systems**. In Vogel-Heuser, B. y Wimmer, M. (Ed.). *Digital Transformation. Core Technologies and Emerging Topics from a Computer Science Perspective* (pp. 223-243). Springer.

Minguillón, J., Marco-Galindo, M. J., Marco-Simó, J. M. & Planas, E. (2023). **¿En qué se diferencian las graduadas de los graduados en su trayectoria en el Grado en Ingeniería Informática? El caso de la Universitat Oberta de Catalunya**. In Rodríguez Fórtiz, M. J., Cruz Lemus, J. A. y Medina Medina, N. (Ed.). *Actas de las XXIX Jornadas sobre la Enseñanza Universitaria de la Informática* (pp. 179-188). Asociación

de Enseñantes Universitarios de la Informática (AENUI) (in collaboration with the Universitat Politècnica de Catalunya's STEAM University Learning Research Group (EduSTEAM)).

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Robles, N., Potes, N., Garcés, K., Cánovas Izquierdo, J. L. & Cabot, J. (2023). **Exploratory Analysis of the Structural Evolution of public REST APIs**. En XXVI

Ibero-American Conference on Software Engineering (CibSE) (pp. 92-106).

Porcuna, P., Andreu, L. & Bañeres, D. (2023). **Towards an Intelligent System for Analysing Children's Speech Disorders**. In *17th International Technology, Education and Development Conference (INTED)* (pp. 6029-6037).

Steimann, Friedrich, Clarisó, R. & Gogolla, M. (2023). **OCL Rebuilt, From the Ground Up**. In *26th International Conference on Model Driven Engineering Languages and Systems (MODELS)* (pp. 194-205). IEEE Computer Society. DOI: 10.1109/MODELS58315.2023.00010.

Tuyishime, A., Basciani, F., Iovino, L., Cánovas Izquierdo, J. L., Cabot, J. & Pierantonio, A. (2023). **Bridging Workflow Automation Tools and EMF Modeling Ecosystems**. *International Conference on Model Driven Engineering Languages and Systems Companion (MODELS-C)* (pp. 893-897). DOI: 10.1109/MODELS-C59198.2023.00140.

Appendix 1. Scientific publications

Urban Transformation and Global Change Laboratory (TURBA Lab)

Articles

- Argüelles, L. & March, H. (2023). [A relational approach to pesticide use: Farmers, herbicides, nutsedge, and the weedy path to pesticide use reduction objectives.](#) *Journal of Rural Studies*, 101, 1-11. DOI: 10.1016/j.jrurstud.2023.103046. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Burch, K., Gugganig, M., Guthman, J., Reisman, E., Comi, M., Brock, S., Kagliwal, B., Freidberg, S., Baur, P., Heimstädt, C., Sippel, S. R., Speakman, K., Marquis, S., Argüelles, L., Biltekoff, C., Broad, G., Bronson, K., Faxon, H., Frohlich, X., Ghosh, R., Halfon, S., Legun, K. & Martin, S. J. (2023). [Cultivating intellectual community in academia: reflections from the Science and Technology Studies Food and Agriculture Network \(STSFAN\).](#) *Agriculture and Human Values*, 40(3), 951-959. DOI: 10.1007/s10460-023-10439-1. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Cardullo, P., Ribera-Fumaz, R. & González Gil, P. (2023). [The Decidim ‘soft infrastructure’: democratic platforms and technological autonomy in Barcelona.](#) *Computational Culture*, 9.
- Charnock, G. & Ribera-Fumaz, R. (2023). [What’s Talent Got to Do with It? The Collective Labourer and the Rise of Barcelona’s Digital Economy.](#) *Antipode: a radical journal of geography*, 56(2), 1-24. DOI: 10.1111/anti.12984. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Charnock, G. & Ribera-Fumaz, R. (2023). [El distrito 22@Barcelona: ¿Una “plataforma de innovación” urbana o la urbanización del capitalismo de plataformas?](#) *Empiria: Revista de Metodología de Ciencias Sociales*, 59, 159-187. DOI: 10.5944/empiria.59.2023.37965. Quartile: SCOPUS SJR: Q3.
- Corres, A. & Ruiz-Mallen, I. (2023). [Digital technologies and the COVID-19 pandemic: Opportunities and challenges for environmental educators in Barcelona.](#) *The Journal of Environmental Education*, 54(1), 8-19. DOI: 10.1080/00958964.2022.2152409. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.
- Dalle Mulle, E. & Serrano-Balaguer, I. (2023). [Universalism within: The tension between universalism and community in progressive ideology.](#) *Nations and Nationalism*, 29(2), 449-466. DOI: 10.1111/nana.12867. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Eversberg, D., Koch, P., Lehmann, R., Saltelli, A., Ramcilovic-Suominen, S. & Kovacic, Z. (2023). [The more things change, the more they stay the same: promises of bioeconomy and the economy of promises.](#) *Sustainability Science*, 18(2), 557-568. DOI: 10.1007/s11625-023-01321-4. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.
- Fernández-Ardèvol, M. & Ribera-Fumaz, R. (2023). [The Network Society Today.](#) *American Behavioral Scientist*, 67(7), 839-846. DOI: 10.1177/00027642221092800. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1 (in collaboration with the IN3

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Communication Networks & Social Change (CNSC) research group).

Franco Guillén, N. (2023). **Ideational legacies and the politics of migration in European minority regions.** *Regional and Federal Studies*. DOI: 10.1080/13597566.2023.2260319. Quartile: SCOPUS SJR: Q1.

Harmácková, Z. V., Yoshida, Y., Sitas, N., Mannetti, L., Martin, A., Kumar, R., Berbés-Blázquez, M., Collins, R., Eisenack, K., Guimaraes, E., Heras, M., Nelson, V., Niamir, A., Ravera, F., Ruiz-Mallen, I. & O'Farell, P. (2023). **The role of values in future scenarios: what types of values underpin (un)sustainable and (un)just futures?** *Current Opinion in Environmental Sustainability*, 64, 1-10. DOI: 10.1016/j.cosust.2023.101343. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

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Kaika, M., Varvarousis, A., Demaria, F. & March, H. (2023). **Urbanizing degrowth: Five steps towards a Radical Spatial Degrowth Agenda for planning in the face of climate emergency.** *Urban Studies*, 60(7), 1191-1211. DOI: 10.1177/00420980231162234. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Kovacic, Z. & Marcos-Valls, A. (2023). **Institutionalising interdisciplinarity in PhD training: challenging and redefining expertise in problem-oriented research.** *Environmental Education Research*, 29(3), 473-488. DOI: 10.1080/13504622.2023.2174252. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Kostakis, V., Niaros, V. & Giotitsas, C. (2023). **Beyond global versus local: illuminating a cosmological framework for convivial technology development.** *Sustainability Science*, 18(5), 2309-2322. DOI: 10.1007/s11625-023-01378-1. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Kotsila, P. & Argüelles, L. (2023). **The necropolitics of expendability: migrant farm workers during COVID-19.** *Journal*

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Urban Transformation and Global Change Laboratory (TURBA Lab)

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Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Mansfield, B., Werner, M., Berndt, C., Shattuck, A., Galt, R., Williams, B., Argüelles, L., Barri, F. R., Ishii, M., Kunin, J., Lapegna, P., Romero, A., Caicedo, A., Abhigya, Castro-Vargas, M. S., Marquez, E., Ojeda, D., Ramirez, F. & Tittor, A. (2023). **A new critical social science research agenda on pesticides. Agriculture and Human Values**, 41, 1-18. DOI: 10.1007/s10460-023-10492-w. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

March, H., Gorostiza, S. & Saurí, D. (2023). **Redrawing the Hydrosocial Cycle Through Treated Wastewater Reuse in the Metropolitan Area of Barcelona**. *Water Alternatives*, 16(2), 463-479. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

March, H. (2023). **La emergencia climática en el contexto de los límites planetarios**. *Oikonomics: Revista de economía, empresa y sociedad*, 21.

Murray, I., Fletcher, R., Blázquez Salom, M., Blanco Romero, A., Cañada, E. i Sekulova, F. (2023). **Tourism and degrowth**. *Tourism Geographies*, 1-11. DOI: 10.1080/14616688.2023.2293956. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Nóblega Carriquiry, A., March, H. & Saurí, D. (2023). **Stakeholder perceptions of the socio-ecological role of nature-based solutions in the Les Glòries Park, Barcelona**. *Urban Forestry & Urban Greening*, 85, 1-10. DOI: 10.1016/j.ufug.2023.127966. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Oscilowicz, E., Anguelovski, I., García-Lamarca, M., Cole, H., Shokry, G., Pérez del Pulgar, C., Argüelles, L. & Connolly, J. (2023). **Grassroots mobilization for a just, green urban future: Building community infrastructure against green gentrification and displacement**. *Journal of Urban Affairs*, 1-34. DOI: 10.1080/07352166.2023.2180381. Quartile: ISI JCR: Q3.

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Robinson, R., Skjolsvold, T. M., Hargreaves, T., Renström, S., Wolsink, M., Judson, E., Pechancová, V., Demirbag-Kaplan, M., March, H., Lehne, J., Foulds, C., Bharucha, Z., Bilous, L., Büscher, C., Carrus, G., Darby, S., Douzou, S., Drevensek, M., Frantál, B., Pereira, A. G., Karvonen, A., Katzeff, C., Kola-Bezka, M., Laakso, S., Lettmayer, G., Parag, Y., Sáfián, F., Swora, M., Tjorring, L., van der Werff, E., van Vliet, B., Wallenborn, G. & Wyckmans, A. (2023). **Shifts in the smart research agenda? 100 priority questions to accelerate sustainable energy futures**. *Journal of Cleaner Production*, 419, 1-13. DOI: 10.1016/j.jclepro.2023.137946. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

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Urban Transformation and Global Change Laboratory (TURBA Lab)

Ruiz-Mallen, I., Baró, F., Satorras, M., Atun, F., Blanc, N., Bortolamiol, S., Casas, L., Clauzel, C., Colacios Parra, R., Gallez, E., Grand-Meyer, E., Gras Velázquez, À., Ivanova, I., Nawrot, T., Presser, P., Reckien, D. i Sekulova, F. (2023). **Refugios climáticos escolares basados en la naturaleza: evaluación desde una perspectiva interdisciplinaria.** *Papers. Regió Metropolitana de Barcelona*, 65, 61-76.

Satorras, M., Lara, A., Ruiz-Mallen, I., del Moral, L., Berraquero-Díaz, L., Oteros Rozas, E. & March, H. (2023). **La implicación social en la acción y gobernanza climática urbana: lecciones desde Barcelona y Sevilla.** *Boletín de la Asociación de Geógrafos Españoles*, 96, 1-37. DOI: 10.21138/bage.3241. Quartile: ISI JCR: Q4 | SCOPUS SJR: Q2.

Sekulova, F., Bonilla, F. & Laín, B. (2023). **Life Satisfaction and Socio-Economic Vulnerability: Evidence from the Basic Income Experiment in Barcelona.** *Applied Research in Quality of Life*, 18(4), 2035-2063. DOI: 10.1007/s11482-

023-10176-x. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q2.

Sekulova, F., Anguelovski, I. & Argüelles, L. (2023). **Redefining success in organizing towards degrowth.** *Environmental Innovation and Societal Transitions*, 48, 1-14. DOI: 10.1016/j.eist.2023.100764. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Waylen, K., Blackstock, K., Matthews, K., Juarez-Bourke, A., Hague, A., Wardell-Johnson, D., Miller, D., Kovacic, Z., Völker, T., Guimarães Pereira, A. & Giampietro, M. (2023). **Post-Normal Science in Practice: Reflections from Scientific Experts Working on the European Agri-Food Policy Nexus.** *Environmental Science & Policy*, 141, 158-167. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Zapana-Churata, L., March, H. & Saurí, D. (2023). **Las desigualdades de acceso al agua en ciudades del Sur Global desde el enfoque de la Ecología Política Urbana.** *Documents d'Anàlisi Geogràfica*, 69(2), 439-461. DOI: 10.5565/rev/dag.718. Quartile: SCOPUS SJR: Q3.

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Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (2023). **Hacia un nuevo espacio urbano. Una transformación en marcha.** In Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (Ed.). *22@Barcelona: un distrito de innovación en disputa.* Icaria.

Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (2023). **Introducción al 22@.** In Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (Ed.). *22@Barcelona: un distrito de innovación en disputa.* Icaria.

Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (2023). **Una transformación radical.** In Charnock, G. Mansilla, J. & Ribera-Fumaz, R. (Ed.). *22@Barcelona: un distrito de innovación en disputa.* Icaria.

Corres, A. & Ruiz-Mallen, I. (2023). **Competencias socioemocionales de los docentes en educación ambiental y para la sostenibilidad: interrelaciones con sus motivaciones y**

Appendix 1. Scientific publications

Urban Transformation and Global Change Laboratory (TURBA Lab)

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Ruiz-Mallen, I., Baró, F., Satorras, M., Atun, F., Blanc, N., Bortolamiol, S., Casas, L., Clauzel, C., Gallez, E., Grand-Meyer, E., Gras Velázquez, A., Ivelina, I. Nawrot, T., Presser, P., Reckien, D. & Sekulova, F. (2023). **Nature-Based Solutions for Climate Adaptation in School Environments: An Interdisciplinary Assessment Framework**. In Allam, Z. (Ed.). *Sustainable Urban Transitions. Research, Policy, and Practice* (pp. 87-105). Springer.

Sánchez-Valdez, J., Paneque Gálvez, J., Borrego, A. & Ruiz-Mallen, I. (2023). **Ciencia ciudadana y coproducción de conocimientos ambientales en comunidades rurales del Sur global.** In Ramírez, I., Borrego, A. & Astier, M. (Ed.). *Integración global: el nuevo entorno de los territorios locales* (pp. 189-218). Universidad Nacional Autónoma de México (UNAM).

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Appendix 1. Scientific publications

Wireless Networks Research Lab (WiNe)

Articles

Arnaiz, D., Alarcón, E., Moll, F. & Vilajosana, X. (2023). **On Anomaly-Aware Structural Health Monitoring at the Extreme Edge**. *IEEE Access*, 11, 90227-90253. DOI: 10.1109/ACCESS.2023.3306958. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

Famitafreshi, G., Afaqui, M. S. & Melià Seguí, J. (2023). **Introducing Reinforcement Learning in the Wi-Fi MAC Layer to Support Sustainable Communications in e-Health Scenarios**. *IEEE Access*, 11, 126705-126723. DOI: 10.1109/ACCESS.2023.3331950. Quartile: ISI JCR: Q2 | SCOPUS SJR: Q1.

López-Soriano, S. & Pous, R. (2023). **Inventory Robots: Performance Evaluation of an RFID-Based Navigation Strategy**. *IEEE Sensors Journal*, 23(14), 16210-16218. DOI: 10.1109/JSEN.2023.3278743. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Melià Seguí, J., Bhattacharyya, R., López-Soriano, S., Vilajosana, X. & Sarma, S. E. (2023). **Low-cost RFID-based Sensor Integrated in Textile for Non-Invasive Pervasive Hydration Monitoring**. *IEEE Sensors Journal*, 1-11. DOI: 10.1109/JSEN.2023.3339117. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Moreno, A., Jorba, J., Peralta, C., César, E., Sikora, Anna Barbara & Hanzich, M. (2023). **A methodology for selecting a performance-convenient ABMS development framework on HPC platforms**. *Simulation Modelling Practice and Theory*, 128(null), 1-20. DOI: 10.1016/j.simpat.2023.102812. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Ojaghi, B., Adelantado, F. & Verikoukis, C. (2023). **SO-RAN: Dynamic RAN Slicing Via Joint Functional Splitting and MEC Placement**. *IEEE Transactions on Vehicular Technology*, 72(2), 1925-1939. DOI: 10.1109/TVT.2022.3209069. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Ojaghi, B., Adelantado, F. & Verikoukis, C. (2023). **On the Benefits of vDU Standardization in Softwarized NG-RAN: Enabling Technologies, Challenges, and Opportunities**. *IEEE Communications Magazine*, 61(4), 92-98. DOI: 10.1109/MCOM.001.2200390. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Vila, M., Sancho, M. R., Teniente López, E. & Vilajosana, X. (2023). **Critical infrastructure awareness based on IoT context data**. *Internet of Things*, 23, 1-23. DOI: 10.1016/j.iot.2023.100855. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

Vilajosana, X., Boquet, G., Melià Seguí, J., Tuset-Peiró, P., Martínez-Huerta, B. & Adelantado, F. (2023). **Challenges and Opportunities for Simultaneous Multifunctional Wireless Networks in the UHF Band**. *IEEE Communications Magazine*, 61(5), 48-54. DOI: 10.1109/MCOM.001.2200345. Quartile: ISI JCR: Q1 | SCOPUS SJR: Q1.

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Wireless Networks Research Lab (WiNe)

Book chapters

Alfayoumi, S. & Vilajosana, X. (2023). **Optimizing Autoencoder Training for Efficient Data Compression**. In *28th International Conference on Emerging Technologies and Factory Automation (ETFA)* (pp. 1-6). DOI: 10.1109/ETFA54631.2023.10275438.

Alfayoumi, S. & Vilajosana, X. (2023). **Obtaining Security Characteristics through Simultaneous Reception of LoRaWAN Packets in Redundant Gateways**. In *20th Annual IEEE International Conference on Sensing, Communication, and Networking (SECON)* (pp. 95-100). DOI: 10.1109/SECON58729.2023.10287460.

Galve, S., Puig, V. & Vilajosana, X. (2023). **Gaussian Sampling Approach to deal with Imbalanced Telemetry Datasets in Industrial Applications**. In *31st Mediterranean Conference on Control and Automation (MED)* (pp. 605-611). DOI: 10.1109/MED59994.2023.10185829.

Galve, S., Vilajosana, X. & Puig, V. (2023). **Black Box Model Analysis for Industrial Fault Monitoring**. In *28th International Conference on Emerging Technologies and Factory Automation (ETFA)* (pp. 1-8). DOI: 10.1109/ETFA54631.2023.10275467.

López-Soriano, S., Melià Seguí, J. & Parrón, J. (2023). **A durable and flexible, low-cost tag antenna design for UHF RFID wearable applications**. In *13th International Conference on RFID Technology and Applications (RFID-TA)* (pp. 9-12). DOI: 10.1109/RFID-TA58140.2023.10290440.

López Vicario, J., Pisa Dacosta, I., Morell, A. & Vilanova Arbós, R. (2023). **A Mutual-Information based Transfer Suitability Metric for Industrial Control**. In *28th International Conference on Emerging Technologies and Factory Automation (ETFA)* (pp. 1-4). DOI: 10.1109/ETFA54631.2023.10275603.

López Vicario, J., Pisa Dacosta, I., Morell, A. & Vilanova Arbós, R. (2023). **Learning on Scarce Data for Industrial Control: a Transfer Learning approach**. In Airdachioaie, D. (Ed.). *8th International Symposium on Electrical and Electronics Engineering (ISEEE)* (pp. 9-13). DOI: 10.1109/ISEEE58596.2023.10310646.

Suo, D., Bhattacharyya, R., Melià Seguí, J. & Sarma, S. E. (2023). **RFID-enhanced Connected Lane Markings: Design Constraints and Requirements**. In *Applied Sensing Conference (APSCON)* (pp. 1-3). DOI: 10.1109/APSCON56343.2023.10101139

Suo, D., Li, H., Bhattacharyya, R., Melià Seguí, J. & Sarma, S. E. (2023). **RF-enhanced Pavement Markings for Mobile Robot Lane Detection**. In *19th International Conference on Automation Science and Engineering (CASE)* (pp. 1-6). DOI: 10.1109/CASE56687.2023.10260394.

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Appendix 2.
Doctoral theses

Appendix 2. Doctoral theses

Communication Networks & Social Change (CNSC)

Dos Santos Dias, T. (2023). *Feminist Strikes in Spain: open-ended (re)configurations of feminist activism towards change*.

Supervisors: **Dr Arnau Moner de Mateo** (Universitat Oberta de Catalunya – CNSC) and **Dr Ricardo Fabrino Mendonça** (Federal University of Minas Gerais).
UOC doctoral programme in the Information and Knowledge Society.

Gender and ICT (GenTIC)

Arroyo Prieto, L. (2023). *La reproducción, y alguna transformación, de las desigualdades de género y clase social en Internet: un análisis interseccional en mujeres usuarias de programas de inclusión digital*.

Supervisors: **Dr Jörg Müller** (Universitat Oberta de Catalunya – GenTIC) and **Dr Teresa Torns** (Universitat Autònoma de Barcelona).

Universitat Oberta de Catalunya doctoral programme in Society, Technology and Culture.

Casado Martínez, C. (2023). *Influencia de los Estereotipos de Género en la Educación Deportiva de Jóvenes en Centros de Entrenamiento Profesional y en Centros Deportivos*.

Supervisors: **Dr Julio Meneses Naranjo** (Universitat Oberta de Catalunya – GenTIC) and **Dr Teresa Sancho Vinuesa** (Universitat Oberta de Catalunya – Faculty of Computer Science, Multimedia and Telecommunications)

Universitat Oberta de Catalunya doctoral programme in Education and ICT (E-learning).

Garrido Skurkowicz, N. (2023). *Gendered networks and work. The case of Social Entrepreneurship, and the Social and Solidarity Economy in Barcelona*.

Supervisors: **Dr Julio Meneses Naranjo** (Universitat Oberta de Catalunya – GenTIC) and **Dr Christian Steiglich** (Linköping University)

Universitat Oberta de Catalunya doctoral programme in the Information and Knowledge Society.

Appendix 2. Doctoral theses

Gender and ICT (GenTIC)

Reyes Reyes, J.I. (2023). *Inclusión de estudiantes con discapacidad en la educación superior online: Un análisis cualitativo sobre la influencia de la socialización y el ambiente de aprendizaje en su éxito académico.*

Supervisor: **Dr Julio Meneses Naranjo** (Universitat Oberta de Catalunya – GenTIC)
Universitat Oberta de Catalunya doctoral programme in Education and ICT (E-learning).

Xavier, M. (2023). *Dropout, persistence, and retention in online higher education: The case of the Open University of Catalonia.*

Supervisor: **Dr Julio Meneses Naranjo** (Universitat Oberta de Catalunya – GenTIC)
Universitat Oberta de Catalunya doctoral programme in Society, Technology and Culture.

Zamarreño Méndez, E. (2023). “*A veces pienso que no encuentro mi lugar*”. *Propuesta para el análisis y la incorporación de una perspectiva interseccional en los planes de igualdad de género. Un acercamiento a las organizaciones del área provincial de Barcelona.*

Supervisors: **Dr Milagros Sáinz Ibáñez** (Universitat Oberta de Catalunya – GenTIC) and **Dr Laura Grappo** (Universidad Wesleyana)
Universitat Oberta de Catalunya doctoral programme in the Information and Knowledge Society.

Global Literary Studies Research Lab (GlobaLS)

Vidal Pérez, A. (2023). *Mediterrani global. Poètiques mediambientals del litoral en la novel·la actual.*

Supervisors: **Dr Neus Rotger Cerdà** (Universitat Oberta de Catalunya – Faculty of Arts and Humanities) and **Dr Diana Roig-Sanz** (Universitat Oberta de Catalunya – GlobaLS).
Universitat Oberta de Catalunya doctoral programme in Humanities and Communication.

Appendix 2. Doctoral theses

Systems, Software and Models Research Lab (SOM Research Lab)

Kumar, A. S. (2023). *Guided Requirements Engineering using Feature Oriented Software Modeling*.

Supervisors: **Dr Robert Clarisó Viladrosa** (Universitat Oberta de Catalunya – SOM Research Lab) and **Dr Elena Planas Hortal** (Universitat Oberta de Catalunya – SOM Research Lab)

Universitat Oberta de Catalunya doctoral programme in Network and Information Technologies.

Urban Transformation and Global Change Laboratory (TURBA Lab)

Corres Gallardo, A.C. (2023). *Educators' competences in Environmental and Sustainability Education: theoretical and practical perspectives towards transformational education in times of global crisis*.

Supervisor: **Dr Isabel Ruiz Mallen** (Universitat Oberta de Catalunya – TURBA Lab – Faculty of Psychology and Education Sciences).

Universitat Oberta de Catalunya doctoral programme in the Information and Knowledge Society.

Iversen, T.O. (2023). *Making world hunger legible. The politics of measuring global food insecurity*.

Supervisors: **Dr Roger Strand** (University of Bergen), **Dr Morten Jerven** (Norwegian University of Life Sciences), **Dr Ola Westengen** (Norwegian University of Life Sciences) and **Dr Zora Kovacic** (Universitat Oberta de Catalunya – TURBA Lab).

University of Bergen doctoral programme in Theory of Science and Ethics.

Appendix 2. Doctoral theses

Urban Transformation and Global Change Laboratory (TURBA Lab)

Marcos Valls, A. (2023). *Identity, landscape, and adaptation for sustainability in Menorca. Advancing integration for governance in complexity through Post-Normal Science (PNS)*.

Supervisors: **Dr Mario Giampietro** (Universitat Autònoma de Barcelona), **Dr Giorgos Kallis** (Universitat Autònoma de Barcelona) and **Dr Zora Kovacic** (Universitat Oberta de Catalunya – TURBA Lab).

Universitat Autònoma de Barcelona PhD programme in Environmental Science and Technology.

Wireless Networks (WiNe)

Ojaghi, B. (2023). *Converged RAN/MEC slicing in beyond 5G (B5G) networks*.

Supervisors: **Dr Luis Alonso Zárata** (Universitat Politècnica de Catalunya), **Dr Ferran Adelantado Freixer** (Universitat Oberta de Catalunya – WiNe) and **Christos Verikoukis**.

Universitat Politècnica de Catalunya doctoral programme in Signal Theory and Communications.

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Appendix 3.
Projects

Appendix 3. Projects

International projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Smart Cities in Global Comparative Perspective: Worlding and Provincializing Relationships	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2020-2023	Sciences and Humanities Research Council of Canada
An algorithmic awareness paradox? Exploring the causes and contradictions of algorithmic awareness	Communication Networks & Social Change (CNSC)	Sara Paz Suárez Gonzalo	2021-2028	Sciences and Humanities Research Council of Canada
Aging in Data	Communication Networks & Social Change (CNSC)	Mireia Fernández-Ardèvol	2021-2028	Sciences and Humanities Research Council of Canada

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>MapModern: Social Networks of the Past. Mapping Hispanic and Lusophone Literary Modernity, 1898-1959</u>	Global Literary Studies Research Lab (GlobalS)	Diana Roig-Sanz	2018-2024	European Commission
<u>PyroLife – training a new generation of interdisciplinary experts in holistic fire management</u>	Care and Preparedness in the Network Society (CareNet) <i>(in collaboration with research groups from other universities/centres)</i>	Míriam Arenas Conejo	2019-2024	European Commission
Unleashing future-facing urban hubs through culture and creativity-led strategies of transformative time	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2020-2024	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
AIDOaRT AI-augmented automation for efficient DevOps, a model-based framework for continuous development At RunTime in cyber-physical systems	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2024	European Commission
TRANSACT Transform safety-critical cyber-physical systems into distributed solutions for end-users and partners	Systems, Software and Models Research Lab (SOM Research Lab)	Abel Gómez Llana	2021-2024	European Commission
Educational Toolkit for Secondary Schools in Wildfires and the Climate Change Context	Care and Preparedness in the Network Society (CareNet)	Míriam Arenas Conejo	2021-2024	European Commission
Realizing potentials of nature-based climate shelters in school environments for urban transformation	Urban Transformation and Global Change Laboratory (TURBA Lab)	Isabel Ruiz Mallén	2022-2025	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Deep learning for multi-technology fusion in industrial indoor asset localization and tracking	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2023	European Commission
SB-RA2-TA3: Relevance of intelligent tutoring systems to IP education	Systems, Software and Models Research Lab (SOM Research Lab)	David Bañeres Besora	2022-2024	European Patent Office (EPO)
<u>INSPIRE Centre of Excellence on Inclusive Gender Equality in Research & Innovation: Creating Knowledge & Engaging in Collaborative Action</u>	Gender and ICT (GenTIC)	Rachel Louise Palmén	2022-2026	European Commission
Play AUT the Box. Playable Cities for All	Urban Transformation and Global Change Laboratory (TURBA Lab)	Ramon Ribera Fumaz	2023-2024	European Commission

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European projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Multimodal Appreciation: Prototypes for the Evaluation and Institutionalization of More-than-Textual Ethnography	Care and Preparedness in the Network Society (CareNet)	Tomás Sánchez Criado	2023-2024	Volkswagen Stiftung
The RESIST Project: Testing Adaptation Solutions to Key Climate Challenges	Care and Preparedness in the Network Society (CareNet)	Israel Rodríguez Giralt	2023-2025	European Commission
Regions for climate change resilience through Innovation, Science and Technology	Care and Preparedness in the Network Society (CareNet)	Israel Rodríguez Giralt	2023-2027	European Commission
Ageism in AI: new forms of age biases and age discrimination in the era of algorithms and artificial intelligence	Communication Networks & Social Change (CNSC)	Andrea Rosales Climent	2023-2027	Volkswagen Foundation
Empower converged optical wireless configuration with cell-free technologies for high-density 6G Networks	Wireless Networks (WiNe)	Ferran Adelantado Freixer	2023-2027	European Commission

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
BODI Bots para interactuar con datos abiertos - Interfaces conversacionales para facilitar el acceso a los datos públicos	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2023	Spanish Ministry of Science, Innovation and Universities
<u>DISSIMILAR Detection of Fake News on Social Media Platforms</u>	K-ryptography and Information Security for Open Networks (KISON) and Communication Networks & Social Change (CNCS)	David Megías Jiménez	2021-2024	Spanish Ministry of Science, Innovation and Universities
LOCOS Low-code development of smart software	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera i Robert Clarisó Viladrosa	2021-2024	Spanish Ministry of Science, Innovation and Universities
Gender equality qualities of the platform economy. A framework of analysis	Digital Commons (Dimmons)	Mayo Fuster Morell	2021-2024	Spanish Ministry of Science, Innovation and Universities

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>The Novel as Global Form. Poetic Challenges and Cross-border Literary Circulation</u>	Global Literary Studies Research Lab (GlobalS) <i>(in collaboration with the UOC Faculty of Arts and Humanities)</i>	Neus Rotger Cerdà and Marta Puxan Oliva	2021-2024	Spanish Ministry of Science, Innovation and Universities
Bots inteligentes para el desarrollo de Open Source	Systems, Software and Models (SOM Research Lab)	Jordi Cabot Sagrera and Javier Luis Cánovas Izquierdo	2022-2024	Spanish Ministry of Science, Innovation and Universities
The Digital Turn in Environmental Governance: Insights from the energy and agri-food systems	Urban Transformation and Global Change Laboratory (TURBA Lab)	Lucía Argüelles Ramos and Zora Kovacic	2022-2024	Spanish Ministry of Science, Innovation and Universities
Habilitando la Nube Continua y Sostenible	Wireless Networks (WiNe)	Xavier Vilajosana Guillén	2022-2024	Spanish Ministry of Science, Innovation and Universities

Appendix 3. Projects

National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
humAn complex system ecoloGy in sOcial and uRbAn Spaces	Complex Systems @ IN3 (CoSIN3)	Javier Borge Holthoefer	2022-2025	Spanish Ministry of Science, Innovation and Universities
<u>HORIGESTEM Expanding Girls' Horizons in Stem Pathways through Interventions with Female Role Models</u>	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2022-2025	Spanish Ministry of Science, Innovation and Universities
Bringing Sustainable Cybersecurity to the Internet of Things - Cybersecurity	K-ryptography and Information Security for Open Networks (KISON)	David Megías Jiménez	2022-2025	Spanish Ministry of Science, Innovation and Universities
Evolución y usos alternativos de la conectividad como respuesta a la digitalización sostenible de la sociedad	Wireless Networks (WiNe)	Xavier Vilajosana Guillén and Borja Martínez Huerta	2022-2025	Spanish Ministry of Science, Innovation and Universities

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
3D Printing All-Solid State Batteries for the Internet of Things Applications (3DSTORE)	Wireless Networks (WiNe)	Xavier Vilajosana Guillén and Borja Martínez Huerta	2022-2025	Spanish Ministry of Science and Innovation
HydraSport: Diseño e integración de sensores pasivos de muy bajo coste en ropa de deporte para la monitorización de niveles de hidratación	Wireless Networks (WiNe)	Joan Melià Seguí and Borja Martínez Huerta	2023	Spanish National Sports Council
<u>ACTFEM TOOLKIT – Toolkit of Educational Strategies for Digital Empowerment in Artificial Intelligence from a Gender Perspective</u>	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2023-2024	Instituto de las Mujeres

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National projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>GENDER & DIGITAL EMPOWERMENT – Development of Educational Resources Related to the Digital Empowerment of Secondary School Teachers and Students from a Gender Perspective</u>	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2023-2024	EduAlter
Sistemas complejos sociotecnológicos	Complex Systems @ IN3 (CoSIN3)	Javier Borge Holthoefer	2023-2025	Spanish Ministry of Science, Innovation and Universities
Cátedra Internacional ARTEMISA de Ciberseguridad	K-ryptography and Information Security for Open Networks (KISON)	Helena Rifà Pous	2023-2026	Spanish National Cybersecurity Institute (INCIBE)

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Regional projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
<u>WUICOM-BCN</u> <u>Comunidades de interfaz resilientes en el fuego de Barcelona</u>	Care and Preparedness in the Network Society (CareNet)	Israel Rodríguez Giralt	2021-2023	Barcelona City Council
<u>LIKE-BCN: social accessIble, and walKable Barcelona</u>	Complex Systems @ IN3 (CoSIN3)	Albert Solé Ribalta	2021-2023	Barcelona City Council
Sistemes d'avaluació en línia. El cas de TeSLA	Complex Systems @ IN3 (CoSIN3)	Xavier Baró Solé	2023	Fundació per a la Universitat Oberta de Catalunya (FUOC)
Negoci i màrqueting d'Apps	K-ryptography and Information Security for Open Networks (KISON)	Carles Garrigues Olivella	2023	Fundació per a la Universitat Oberta de Catalunya (FUOC)

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Regional projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Avaluació ciutadana dels pressupostos participatius a Catalunya: satisfacció, problemes i efectes sobre la confiança i legitimitat polítiques	Communication Networks & Social Change (CNSC)	Rosa Borge Bravo	2023-2024	Government of Catalonia
El vot electrònic: eina d'impuls de la participació ciutadana? Lliçons d'eleccions a representants, al si dels partits polítics i en els pressupostos participatius	Communication Networks & Social Change (CNSC)	Rosa Borge Bravo	2023-2024	EAPC (Public Administration School of Catalonia)
<u>FREE6G: Free-cell networks based on machine learning</u>	K-ryptography and Information Security for Open Networks (KISON)	Helena Rifà Pous	2023-2024	Centre Tecnològic de Telecomunicacions de Catalunya (CTTC)

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Regional projects

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Ambient Humidity Efficient Irrigation System (SER HUMÀ)	Wireless Networks (WiNe)	Joan Melià Seguí	2023-2025	ACC1Ó. Government of Catalonia, Catalan Ministry of Business and Employment
La Gestión colaborativa de la medicación. Salud mental colectiva, derechos y ciudadanía en Barcelona. GCM-BCN	Care and Preparedness in the Network Society (CareNet)	Asun Pié Balaguer	2023-2025	Barcelona City Council
Generational Renewal in Spanish Agriculture: Identifying Farm Desertion Hotspots	Urban Transformation and Global Change Laboratory (TURBA Lab)	Lucía Argüelles Ramos	2023-2025	"la Caixa" Foundation

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Appendix 4.
Consultancy
services

Appendix 4. Consultancy services

National consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Prestació de serveis d'avaluadors científics per a ACERTA	K-ryptography and Information Security for Open Networks (KISON)	David Megías	2020-2024	Acerta I Mas D Mas I, S.L.
AIDOaRT AI-augmented automation for efficient DevOps, a model-based framework for continuous development At RunTime in cyber-physical systems	Systems, Software and Models Research Lab (SOM Research Lab)	Jordi Cabot Sagrera	2021-2024	Spanish Ministry of Industry, Tourism and Trade
TRANSACT Transform safety-critical cyber-physical systems into distributed solutions for end-users and partners	Systems, Software and Models Research Lab (SOM Research Lab)	Abel Gómez Llana	2021-2024	Spanish Ministry of Industry, Tourism and Trade
Conveni Marc de col·laboració entre la Universitat Oberta de Catalunya i la Fundación ASTI Talent & Technology Foundation	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2022-2025	ASTI Talent and Tech Foundation

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Regional consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Càtedra Barcelona UOC en economia digital: per a una economia col·laborativa centrada en el benestar de les persones i el dret a la ciutat	Digital Commons (Dimmons)	Mayo Fuster Morell	2020-2023	Barcelona City Council
Contracte per a la prestació de serveis a l'empresa Hotaru, SCP	Urban Transformation and Global Change Laboratory (TURBA Lab)	Isabel Ruiz Mallén	2023	Hotaru, SCP
Supervisió i coordinació de projectes de R+D+i Lenium World S.L	Wireless Networks (WiNe)	Joan Melià Seguí	2023	Lenium World S.L.
Enquestes sobre bretxa digital a nivell local - Reflexions i recomanacions	Communication Networks & Social Change (CNCS)	Mireia Fernández-Ardèvol	2023	Barcelona Mobile World Capital Foundation

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Regional consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Mapa de tecnologies a les cooperatives i mapa de solucions digitals recomanades	Digital Commons (Dimmons)	Ricard Espelt Rodrigo	2023	femProcomuns, SCCL
PlatformTechESS: desenvolupament i execució de píndoles formatives i mentoria	Digital Commons (Dimmons)	Ricard Espelt Rodrigo	2023-2024	Tandem Social, SCCL
Supervisió i coordinació de projectes d; I+D+i que Lenium World S.L. està desenvolupant i promocionant_NOVA CONS 23	Wireless Networks (WiNe)	Joan Melià Seguí	2023-2024	Lenium World S.L.
Elaboració guia didàctica sobre continguts de gènere i estereotips	Gender and ICT (GenTIC)	Milagros Sáinz Ibáñez	2023-2024	Associació Edualter Educació Alternativa

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Regional consultancy services

Project name	Research group	IN3-UOC principal investigator	Period	Funding body
Consultoria per a ACERTA de Jordi Serra	K-ryptography and Information Security for Open Networks (KISON)	Jordi Serra-Ruiz	2023-2025	Acerta I Mas D Mas I, S.L.
Consultoria per a ACERTA Ferran Adelantado	Wireless Networks (WiNe)	Ferran Adelantado Freixer	2023-2025	Acerta I Mas D Mas I, S.L.
Colaboración entre la UOC y LOOPBACK0 en el desarrollo de actividades de interés mutuo para ambas partes en el ámbito de la I+D+i+T	Wireless Networks (WiNe)	Pere Tuset Peiró	2023-2025	Formación y Capacitación Avanzada en IT S.L.

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