



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

ETHICS

The University of Bologna offers multidisciplinary competences on ethical dimensions of different research fields, responding to societal needs, addressing issues raised by advances in scientific research and innovation and reflecting the basic values of society.

Ethics and economics

- Business ethics
- Ethics and enterprise
- Ethics of consumption
- Corporate Social Responsibility in profit and non profit organizations: social responsible behaviours, internal governance
- Fund Raising and Non Profit Organizations: the ethical motivations of donors
- Ethics in finance and ethical finance

Ethics and environment – food

- Ethics and protection of environment and against waste
- Environmental justice

Normative ethics applied to biological issues

- Bioethics and biolaw
- Ethics of biological innovation (vulnerability, body and rights)
- Bioethics and politics (impacts of public debate on bioethics on democracy)
- Medical ethics, philosophy of illness
- Biotech law, ethics of genetics
- Neuroethics

Ethics, data and computing

- Privacy and data protection
- Ethics and big data
- Information ethics and AI

Ethics and philosophy

- Ethics and political philosophy
- Law and Morality
- Moral argumentation
- Ethics of human rights
- Ethics, religion and politics
- Ethics of scientific research
- Professional ethics

Responsible Research

- Development of ethical guidelines and operational standards for the ethical committees and the research community
- Rules, values, principles of research integrity compliance
- Analysis of research protocols
- Methodologies for teaching ethics, research integrity
- Economics of science: the analysis of scientists' incentives both in academia and the private sector

Ethics at UNIBO

The University of Bologna has developed [Regulation for research integrity](#) aiming to create a culture of integrity in research in the workplace and to promptly manage any reported cases of non-compliance with research integrity. UNIBO has worked on the [Internal Regulation for the processing of personal data for statistical and scientific purposes](#). UNIBO can count on an appointed [Bioethics Committee](#) that has information and proposal functions concerning topics of bioethical importance.



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

GENDER STUDIES

The University of Bologna scholars in gender studies promote innovative knowledge seeking to implement cultural and social changes that enhance gender equality and cultural diversity. The main research areas are studied through a multi-disciplinary approach.



Research areas

- Gender violence and representations, gender-based violence
- LGBTI studies; Queer studies
- Women's literature
- Gender in literature, language, audiovisual and performing arts
- Feminist studies and theory
- Women, conflict, trauma, peace processes
- Women, memories and cultural heritage
- Women and gender history
- Gender stereotypes in education and media
- Gender identity, socialization and development in childhood
- Gender representations in media, new media and social representations
- Gender-based discrimination and prejudices
- Gender and migration, women's empowerment and development studies
- Reproductive rights and health
- Sexual health, sexual orientation, sexual education
- Health, demographic change and wellbeing to women's bodies
- Gender and healthy ageing and quality of life, including nutrition
- Cultural, Gender, and Social Studies of Science and Technology
- Women in Science, Engineering, Technology and Mathematics
- Gender digital and new technologies divide
- Gender and new practices of culture, sport and consumption
- EU law, International law, Fundamental Rights, Immigration studies
- Anti-discriminatory law, equal opportunities in jobs
- Women's citizenship and democracy; gender and political leadership
- Institutional change towards gender equality

Disciplinary approaches

- Gender and Anthropology
- Gender and Cultural Studies
- Gender and Economics
- Gender and Education
- Gender, Law, and Political Theory
- Gender and Media
- Gender and Social Sciences
- Gender and Psychology
- Gender and Social Studies of Science
- Gender and Women's History
- Gendered Innovations in Science and Technology
- Gendered Medicine

HIGHLIGHTS

Research Centres at UNIBO

Gender and Education Research Centre ([CSGE](#)) is an interdisciplinary research centre focussing on gender and education as part of gender studies approach.

European Projects

Horizon 2020 [NEXTFOOD](#) - Educating the next generation of professionals in the agrifood systems - Contribution on Gender equality and gender impact assessment.

Creative Europe [G-BOOK 2](#) - *European teens as readers and creators of gender-positive narratives* builds on the results of [G-BOOK Gender Identity](#). The main objectives are to support the circulation of gender-positive teens' literature at a EU level and engage the target audience (early teenagers) with gender-related topics in an equality perspective and develop their creative skills.



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

OPEN SCIENCE

Research at the University of Bologna addresses, in a multidisciplinary perspective, all aspects of open science and open innovation and the quadruple helix model, open data applications, digital humanities, skills and competencies for open science.



Open innovation

- Technology and innovation management
- R&D management; internationalization of R&D
- Economics of innovation
- Models of developing, protecting and exploiting innovation
- Technology transfer
- IPR, patenting activities and technology licensing
- Intellectual capital and innovation
- Determinants and knowledge spillovers in invention processes
- Role of skills and division of labour in collective inventions and entrepreneurship in virtual environments
- Collaborative practices and innovation, collaborative automation
- International sourcing of Knowledge and offshoring processes; offshoring of intangibles
- Scientometrics
- Economics of science; scientists' incentives
- Organizational capabilities, inter-firm networks, industrial districts
- University-industry collaborations
- Academic entrepreneurship; academic spin offs; academic patenting
- Communication and engagement of civil society

Open data

- Big data, open data, policy making and decision-making processes
- Open data, open government, democracy and participation
- Scholarly communication
- Document engineering
- Ontology engineering
- Semantic web and ontologies; semantic publishing; digital publishing
- Knowledge management
- Knowledge management for e-Government

Skills for Open Science

- Open access publishing
- Data management and open data
- Research ethics and integrity

HIGHLIGHTS

[Open Science at UNIBO](#)

The University of Bologna is involved in the process of developing an open, transparent, and shared science. It has included Open Science in its strategical plan and has set out a University policy based on open access to research publications and data.

European Projects

Horizon 2020 [SERRI](#) - Building Self-Sustaining Research and Innovation Ecosystems in Europe through Responsible Research and Innovation.



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

SCIENCE EDUCATION

Research at the University of Bologna addresses: science teaching and learning in formal and informal contexts, scientific citizenship, public engagement, dissemination and communication of science, science teacher education.

Science teaching and learning

- Education to scientific knowledge
- Development of STEM skills; making STEM careers attractive
- RRI (Responsible Research and Innovation) and science teaching
- Pre-service and in-service teacher education
- New technologies for teaching and learning
- The role of history, philosophy and epistemology in teaching/learning science
- Educational reconstruction of advanced current topics in physics (thermodynamics, relativity, quantum physics)
- Physics education in a multi-disciplinary perspective
- Development of computational thinking in K-12 education
- Appropriation and conceptual change models
- Analysis of complex learning environments
- Instruction design about environmental issues
- Social development, cognition and gender stereotypes
- Social and cultural history of science

Citizen science and scientific citizenship

- Training needs in citizen science and impact assessment of citizen science initiatives
- Science education and scientific citizenship
- Future-oriented science education;
- Public engagement, community-based participatory research and involvement of citizens in S&T research
- Communication of science; skepticism and trust in science
- Dissemination, awareness, knowledge sharing activities and events to connect science and society
- Science and society in modern and contemporary age

Informal science education

- Science education in informal contexts
- Science education and storytelling
- Science teaching tools (museums, science centers, popular books, communication of science)
- Museums education
- Evaluation of museum programs

HIGHLIGHTS

European Projects

Horizon 2020 [FEDORA](#) – *Future-oriented Science EDucation to enhance Responsibility and engagement in the society of Acceleration and uncertainty* aims at developing a future-oriented model enabling formal and informal science education to offer young people foresight and action competences. Recommendations for anticipatory policies will be formulated for the creation of visionary attitudes on open schooling.

Horizon 2020 [SEAS](#) – *Science education for action and engagement towards sustainability* aims at maximising the use of open-schooling networks to promote responsible citizenship via education on 21st century scientific literacy and skills. It will provide opportunities to cultivate a deep interest in science among students and citizens.