

# 2023 RESEARCH CELEBRATION

## WINNING PROJECTS

**ARNSTEIN AASSVE**

**FutuRes**

**TOWARDS A RESILIENT FUTURE OF EUROPE**

FutuRes brings together scientists belonging to a wide range of disciplines to study ageing in Europe and devise evidence-based foundations for policies.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25022>

**NICOLETTA BALBO**

**FRAILIFE**

**CHILD DISABILITY AND FAMILY LIFE**

FRAILIFE aims at better understanding how a child disability shapes family members' health and their social, demographic, and economic trajectories.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24910>

**GIUSEPPE BERLINGIERI**

**MOLDisTory**

**MERCHANTS-BANKERS AND THE ORGANIZATION OF LONG-DISTANCE TRADE**

MOLDisTory aims at advancing our understanding of the interconnection between long-distance trade and financial intermediation throughout history.

[http://www.stampa.unibocconi.it/editor/archivio\\_pdf/BerlingieriMOLDisTory20231121155811.pdf](http://www.stampa.unibocconi.it/editor/archivio_pdf/BerlingieriMOLDisTory20231121155811.pdf)

**TITO BOERI**

**MARKDOWN**

**MONOPSONY POWER AND INEQUALITY**

MARKDOWN studies the conditions that limit workers' job mobility, leading to a monopsony situation that has negative effects on wages and working conditions.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25622>

**LUCA BRAGHIERI**

**SOME**

**SOCIAL MEDIA: MEASURING EFFECTS AND MITIGATING DOWNSIDES**

SOME will measure causal effects of social media in domains where we still lack a clear picture and will design interventions to mitigate the negative effects we are aware of.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25715>

**GIUDITTA CALLEA**

**HEU-EFS**

**HARMONIZED APPROACH TO EARLY FEASIBILITY STUDIES FOR MEDICAL DEVICES IN THE EUROPEAN UNION**

HEU-EFS is meant to support medical device innovation in the EU through the development of a dedicated early feasibility study program.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25855>

**MICHELA CARLANA**

**SOFIA**

**STEREOTYPES AND OPPORTUNITIES: FOSTERING INTERACTIONS AND AWARENESS**

SOFIA investigates the formation of stereotypes that keep disadvantaged and underrepresented groups from fully exploiting educational opportunities.

[https://www.stampa.unibocconi.it/editor/archivio\\_pdf/CarlanaSOFIA20231121155657.pdf](https://www.stampa.unibocconi.it/editor/archivio_pdf/CarlanaSOFIA20231121155657.pdf)



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**ORIANA CIANI**  
**HI-PRIX**

**HEALTH INNOVATION NEXT GENERATION PAYMENT & PRICING MODELS**

HI-PRIX is aimed at formulating new pricing and payment schemes, which will overcome the barriers of access to innovative health care technologies.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24695>

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**ANTONIO DE ROSA**  
**ANGEVA**

**ANISOTROPIC GEOMETRIC VARIATIONAL PROBLEMS: EXISTENCE, REGULARITY AND UNIQUENESS**

ANGEVA develops a branch of mathematics that can have direct impact on materials science, cell biology, computer graphics, economics, and general relativity theory.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25419>

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**ERIKA DESERRANNO**  
**DIGIDEV**

**DIGITALIZATION OF PUBLIC SERVICE DELIVERY AND INCLUSIVE DEVELOPMENT**

DIGIDEV investigates how technology can influence supply and demand of basic public services to reduce inequalities and boost growth in developing countries.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25690>

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**DANIELE DURANTE**  
**NEMESIS**

**SOCIOGENESIS OF CRIMINAL NETWORKS: RECONSTRUCTION, DISCOVERY AND DISRUPTION**

NEMESIS studies the architecture and core dynamics of modern criminal networks by applying cutting-edge statistical methods to judicial records.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25700>

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**NICOLA GENNAIOLI**  
**MEMDEC**

**MEMORY, BELIEFS, AND ECONOMIC DECISIONS**

MemDec builds on the psychology of human memory and attention to make sense of irregularities and inconsistencies in the formation of beliefs and choices.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25262>

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**LUIGI IOVINO**  
**GEM**

**GREAT EXPECTATIONS: MACROECONOMIC IMPLICATIONS OF FORECASTING BEHAVIOR**

GEM wants to shed light on how expectations are formed and how they determine economic decisions, with the goal of designing better policies.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25509>

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**NICOLA LIMODIO**  
**FINDEV**

**FINANCIAL INSTITUTIONS AND DEVELOPMENT**

FINDEV studies how to fine-tune policies of financial regulation to promote development in low- and middle-income countries.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25744>



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**GIULIO MALAVOLTA**

**ObfusQation**

**CODE OBFUSCATION IN A QUANTUM WORLD**

ObfusQation explores the evolution of cryptography in a post quantum environment, with the aim of developing techniques capable of withstanding attacks from quantum algorithms.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25719>

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**FLORIAN NAGLER**

**NTAOTC**

**NON-TRADED ASSETS IN OVER-THE-COUNTER MARKETS**

NTAOTC studies the workings of decentralized, over-the-counter markets, which account for 90% of financial assets trades across the world.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24914>

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**GRETA NASI**

**AI-PACT**

**ARTIFICIAL INTELLIGENCE FOR PUBLIC ADMINISTRATIONS CONNECTED**

AI-PACT aims at facilitating the adoption of AI technologies for the digital transformation of public administrations.

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**DEBORA NOZZA**

**PERSONAE**

**PERSONALIZED AND SUBJECTIVE APPROACHES TO NATURAL LANGUAGE PROCESSING**

PERSONAE studies how language-based technologies can tailor their outputs to individual users' needs, making individuals active participants in the process.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25755>

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**MARCO OTTAVIANI**

**INFORMATION ECONOMICS FOR SCIENCE**

Information Economics for Science studies how research responds to incentives and how to improve the funding system, while safeguarding researchers' freedom.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24757>

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**ZACHARY PAROLIN**

**ExpPov**

**THE EXPERIENCE OF POVERTY IN THE POST-INDUSTRIAL ECONOMY**

ExpPov proposes a new conceptual approach and better ways to collect data to explore the experience of poverty in the postindustrial economy.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24023>

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**ORESTE POLLICINO**

**DigCon**

**DIGITAL CONSTITUTIONALISM: RIGHTS, REMEDIES AND POLICY IN THE ALGORITHMIC SOCIETY**

DigCon is intended to design a new standard of substantive and procedural rights against any improper and non-transparent use of Artificial Intelligence.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25707>



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**JULIEN SAUVAGNAT**  
**DATAGROW**

**ARTIFICIAL INTELLIGENCE, ROBOTICS, AND GROWTH**

DATAGROW studies the effects of robotics on individual workers' careers and the effects of AI on firms' labor demand and aggregate employment.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=25766>

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**MARA SQUICCIARINI**  
**EDIPO**

**EDUCATION, DIVERSITY, INNOVATION, AND POLITICS**

EDIPO uses quantitative history to shed light on past and current instances of expansion and universalization of education, with a focus on Post-Revolutionary France.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=23741>

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**BOTOND SZABO**  
**BigBayesUQ**

**THE MISSING MATHEMATICAL STORY OF BAYESIAN UNCERTAINTY QUANTIFICATION FOR BIG DATA**

BigBayesUQ studies how to assess the fundamental properties of statistical and machine learning methods widely used when dealing with large quantities of complex data.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=23900>

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**ROSANNA TARRICONE**  
**JACARDI**

**THE JOINT ACTION ON CARDIOVASCULAR DISEASES AND DIABETES**

JACARDI is aimed at reducing the burden of cardiovascular disease and diabetes in EU countries, by integrating validated best practices and cost-effective interventions.

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**SCOTT RANDALL WILLIAMSON**  
**DEVAL**

**DEMOCRATIC VALUES AND AUTHORITARIAN LEGITIMACY**

DEVAL is intended to shed light on how citizens perceive democracy and how authoritarian regimes manipulate popular support.

[http://www.stampa.unibocconi.it/editor/archivio\\_pdf/WilliamsonDEVAL20231121155740.pdf](http://www.stampa.unibocconi.it/editor/archivio_pdf/WilliamsonDEVAL20231121155740.pdf)

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**GIACOMO ZANELLA**  
**PrSc-HDBayLe**

**PROVABLE SCALABILITY FOR HIGH-DIMENSIONAL BAYESIAN LEARNING**

PrSc-HDBayLe is aimed at better understanding computational algorithms for large-scale probabilistic models. It will produce guidelines to improve such algorithms.

<https://www.knowledge.unibocconi.eu/notizia.php?idArt=24912>