

This document contains the list of UNIRI researchers who have expressed an interest in hosting a postdoctoral fellow and applying to the MSCA PF Call in 2026.

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1. Life Sciences

SCIENTIFIC SUPERVISOR

Name and surname	Assist. Prof. Ana Filošević Vujnović, PhD
UNIRI Faculty	Faculty of Biotechnology and Drug Development
Organisational unit / Research group	N/A
Research interests	Role of m6A RNA modifications and histone changes in gene regulation, metabolic alterations, in drug addiction using <i>Drosophila melanogaster</i> as a model organism.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Epitranscriptomics ▪ m6A RNA modifications ▪ Epigenetics and histone post-translational modifications ▪ Metabolomics ▪ Drug addiction – <i>Drosophila melanogaster</i> model
EU or national-funded project experience	
Scientific panel	Life Sciences
ORCID (link)	https://orcid.org/0000-0003-3431-6153
Personal or Research team's website	https://sway.cloud.microsoft/Idu2iz3JHOhAQ9Mb?ref=Link&loc=mysways
Contact e-mail	ana.filosevic@biotech.uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Kristina Grabušić, PhD
UNIRI Faculty	Faculty of Medicine
Organisational unit / Research group	Dpt. for Physiology, Immunology and Pathophysiology
Research interests	<ul style="list-style-type: none"> ▪ Extracellular vesicles in antioxidant response and neuro-recovery. ▪ Development of single-EV measurements using nanotechnologies, including microflow nanocytometry and tunable resistive pulse sensing.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Extracellular vesicles ▪ Oxidative stress ▪ Microflow cytometry ▪ Trps ▪ Liquid biopsy
EU or national-funded project experience	PI of national projects: HRZZ-2019, HRZZ-2025
Scientific panel	Life Sciences
ORCID (link)	https://orcid.org/0000-0002-4165-0291
Personal or Research team's website	https://medri.uniri.hr/en/science/research-groups/
Contact e-mail	kristina.grabusic@uniri.hr

2. Social Sciences and Humanities

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Ana Pošćić, PhD
UNIRI Faculty	Faculty of Law
Organisational unit / Research group	Chair of European Public Law
Research interests	EU law, EU internal law, competition law, artificial intelligence, new technologies
Keywords (max. 5) connected to research interests	EU law, competition law, AI, new technologies
EU or national-funded project experience	
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0001-7315-0630
Personal or Research team's website	
Contact e-mail	ana.poscic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Antonija Primorac, PhD
UNIRI Faculty	Faculty of Humanities and Social Sciences
Organisational unit / Research group	Department of English
Research interests	<ul style="list-style-type: none"> ▪ Victorian literature and culture ▪ Neo-Victorianism ▪ Adaptation studies ▪ Periodical press and book history (19th and early 20th century) ▪ World literature and digital humanities ▪ Crime fiction
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Adaptation, ▪ (neo-)Victorian, ▪ Periodicals, ▪ Translation, ▪ World literature and DH
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ COST Action Distant Reading for European Literary History (2017-2022), ▪ Croatian and Anglophone Crime Fiction: Text, Context, Translation (2025-2029)
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0001-9217-4857
Personal or Research team's website	https://portal.uniri.hr/Portfolio/2786 https://krimic.uniri.hr/?page_id=110
Contact e-mail	antonija.primorac@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Ivan Lupić, Ph.D.
UNIRI Faculty	Faculty of Humanities and Social Sciences
Organisational unit / Research group	Department of English language Department of Croatian language
Research interests	<ul style="list-style-type: none"> ▪ Early modern literature ▪ Transnational theater history ▪ Book history/manuscript studies ▪ Literature and politics ▪ Adriatic humanism/Renaissance ▪ Translation studies ▪ Multilingualism/multiscripturality
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Anglophone literatures and cultures ▪ Croatian literature ▪ Book history ▪ Manuscript studies ▪ Theater history
EU-funded project experience	Researcher on the ERC Advanced Grant 2020: Textuality and Diversity: A Literary History of Europe and its Global Connections, 1545-1659.
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0002-4208-6362
Personal or Research team's website	https://portal.uniri.hr/Portfolio/details/7452 https://uniri.academia.edu/IvanLupic%C4%87
Contact e-mail	ivan.lupic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Ivana Kunda, PhD
UNIRI Faculty	Faculty of Law
Organisational unit / Research group	Institute for European and Comparative Law
Research interests	<ul style="list-style-type: none"> ▪ EU law ▪ Internet law ▪ IP law ▪ Private international law ▪ Data protection ▪ AI regulation ▪ Legal technology ▪ Online platforms
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ EU law ▪ Digital law ▪ Artificial intelligence ▪ Cross-border matters ▪ Legal tech
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ 2025-2027 Data Governance and Intellectual Property Governance in Common European Data Spaces – DGIP-CEDS (101210413 – DGIP-CEDS) ▪ 2025-2027 Fair and Innovative Cross-Border Recovery with Out-of-Court Enforcement Titles - Fair-in-Debt (101251495 – Fair-in-Debt – JUST-2025-JCOO) ▪ 2022-2024 Digital Communication and Safeguarding the Parties’ Rights: Challenges for European Civil Procedure DIGI-GUARD (EU Justice No. 101046660 – DIGI-GUARD – JUST-2021-JCOO) ▪ 2021-2023 E-training on EU Family Property Regimes – EU FamPro (EU Justice No. 101008404 – JUST-AG-2020/JUST JTRA-EJTR-AG-2020) ▪ 2019–2021 Train to enforce – Train2 EN4CE (EU Justice No. 854038-JUST-AG-2018/JUST-JTRA-EJTR-AG-2018) ▪ 2019–2021 Diversity of Enforcement Titles in Cross-Border Debt Collection in the EU – EU_En4s (EU Justice No. 831628-JUST-AG-2018/JUST-JCOO-AG-2018) ▪ 2018-2021 Facilitating Cross-Border Family Life: Towards a Common European Understanding - EUFams II (br. 800780 JUST-AG-2017/JUST-JCOO-AG_2017)

- 2017-2019 Personalized Solution in European Family and Succession Law – PSEFS (EU Justice No. 800821-JUST-AG 2017/JUST-JCOO-AG-2017)
- 2015-2017 Remedies concerning Enforcement of Foreign Judgements according to Brussels I Recast - BIARE (br. JUST/2014/JCOO/AG/CIVI/7749)
- 2015-2017 EU Judiciary Training on Brussels IIa Regulation: From South East (EU Justice to JUST/2014/JTRA/AG/EJTR/6854)
- 2014-2017 Business and Human Rights Challenges for Cross-Border Litigation in the European Union (EU Justice No. JUST/2013/JCIV/AG/4661)

Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0001-9636-9117
Personal or Research team's website	https://www.croris.hr/osobe/profil/548
Contact e-mail	ivana.kunda@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Katarina Kušić, PhD
UNIRI Faculty	Center for Advanced Studies of Southeast Europe
Organisational unit / Research group	Center for Advanced Studies of Southeast Europe
Research interests	political ecology; international interventions and development; interpretative political science; fieldwork methods
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Land politics ▪ Southeast Europe ▪ Postcolonial theory ▪ Ethnographic methods
EU or national-funded project experience	MSCA individual postdoctoral fellowship; ESRC post-doctoral fellowship; Bremen post-doc fellowship
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0001-9066-6823
Personal or Research team's website	https://www.katarinakusic.com
Contact e-mail	katarina.kusic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Manuela Svoboda, PhD
UNIRI Faculty	Faculty of Humanities and Social Sciences
Organisational unit / Research group	Department of German Studies Department of Translation Studies
Research interests	Translation studies (theory/methodology); comparative/contrastive linguistics, language contacts/Germanisms; German as Foreign/Second Language; teacher education; AI in language teaching/translation
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Translation ▪ DAF/DAZ ▪ linguistics ▪ germanisms ▪ AI
EU or national-funded project experience	DECODE project (ECML-funded), international biliteral research projects, including “Translating and Interpreting for Migrants and Refugees: Experiences of Slovenia and Croatia, national research project focussing on the multilingual creative potential of children
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0003-0823-8446
Personal or Research team’s website	https://portal.uniri.hr/portfelj/108
Contact e-mail	msvoboda@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Martina Bajčić, PhD
UNIRI Faculty	Faculty of Law
Organisational unit / Research group	Department of Languages
Research interests	<ul style="list-style-type: none"> ▪ Legal translation ▪ Terminology ▪ Generative ai ▪ Llms ▪ Eu multilingualism ▪ Legal hermeneutics
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ LLMs ▪ legal translation (quality) ▪ terminological competence ▪ AI literacy ▪ legal hermeneutics
EU-funded project experience	<ul style="list-style-type: none"> ▪ EU justice, Croatian Science Foundation, Next Generation EU. ▪ Currently leads GenAI in Legal Translation (Croatian Science Foundation) and Legal Terminology Management in the Digital Age (NGEU).
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0003-0654-6779
Personal or Research team's website	https://portal.uniri.hr/portfelj/1023 https://pravri.uniri.hr/en/project/generative-artificial-intelligence-in-legal-translation/
Contact e-mail	martina.bajcic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Sanja Barić, PhD
UNIRI Faculty	Faculty of Law
Organisational unit / Research group	Constitutional Law Chair
Research interests	<ul style="list-style-type: none"> ▪ Comparative constitutional law - constitutional adjudication ▪ human rights and poliarchy ▪ Non for profit law ▪ Antidiscrimination law ▪ Animal Rights Law
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Constitution ▪ Human rights ▪ Animal ▪ Non for profit
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ Researcher on project „Enhancing the process of self-regulated learning with the support of educational technologies“, UNIRI – NPOO (2025-2029) ▪ Project leader, "Humans, Animals, and the Bearers of (Subjective) Rights: Transition from an Anthropocentric Legal Paradigm to the Rights of Nature," funded by University of Rijeka (2024–2025) ▪ Institutional team leader, ERASMUS+ "The Law Project – Law in Everyday Life" (2021–2024) ▪ UNIRI team member, INSPIRE CoP (Community of Practice "The Next Step of Diversity and Gender Equality Efforts in Europe and Beyond" within Horizon Europe project INSPIRE - Europe's Centre of Excellence on inclusive gender equality in research and innovation); (2024 -) ▪ Institutional team leader, HORIZON 2020 „SPEAR - Supporting and Implementing Gender Equality Plans in Academia“ (2019–2023)
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0001-6496-9062
Personal or Research team’s website	https://pravri.uniri.hr/en/about-us/organizational-structure/departments/department-of-constitutional-law/
Contact e-mail	sbaric@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Sanja Tatalović Vorkapić, PhD
UNIRI Faculty	Faculty of Teacher Education
Organisational unit / Research group	Social Sciences Department
Research interests	Positive psychology; Personality psychology; Mental health and well-being in education; Teachers' and students' psychological well-being; Childhood transitions and adjustments in kindergartens/schools
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Psychological well-being ▪ Mental health ▪ Childhood transitions ▪ Personality ▪ Teachers
EU or national-funded project experience	Erasmus+KA3 & Erasmus+KA2 projects / several UNIRI projects
Scientific panel	Social Sciences and Humanities
ORCID (link)	https://orcid.org/0000-0002-9170-8455
Personal or Research team's website	https://www.croris.hr/osobe/profil/10793?lang=en https://adjustwell.uniri.hr/en/home/
Contact e-mail	sanjatv@uniri.hr

3. Information Science and Engineering

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Ana Meštrović, PhD
UNIRI Faculty	Faculty of Informatics and Digital Technologies
Organisational unit / Research group	Laboratory for Semantic Technologies
Research interests	AI research: generative AI, AI agents, LLMs and NLP; complex and social network analysis; modeling information evolution and propagation; disinformation detection; media trend analysis.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Artificial Intelligence ▪ Large Language Models ▪ Natural Language Processing ▪ Information Propagation ▪ Complex Networks
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ Principal Investigator of AINFOMEDIA – Artificial Intelligence Methods for Analyzing Media Texts and Researching Information Dissemination (NPOO, 2025–2029). ▪ Researcher in international projects including AI4Gov-X and AI-SECRET (Digital Europe Programme) and COST Action GOBLIN. ▪ Collaborator in innovation and digital transformation projects such as EDIH Adria, EDIH Adria 2.0, PEOPLET, INOVArte, INOVAconverTe and HyAI. ▪ Previously, PI of InfoCoV – Multilayer Framework for Information Spreading Characterization in Social Media during the COVID-19 Crisis (2020–2022, Croatian Science Foundation). ▪ Project lead of university projects AIMtext (2024–2025) and SemText (2019–2024).
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0001-9513-9467
Personal or Research team's website	https://portal.uniri.hr/Portfolio/996 https://semtech.uniri.hr/
Contact e-mail	amestrovic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Jonatan Lerga, PhD
UNIRI Faculty	Faculty of Engineering
Organisational unit / Research group	Center for Artificial Intelligence and Cybersecurity Department of Computer Engineering
Research interests	<ul style="list-style-type: none"> ▪ Digital Signal Processing ▪ Artificial Intelligence ▪ Machine Learning
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Digital signal processing, ▪ Artificial intelligence, ▪ Machine learning applications, ▪ Image processing, ▪ Time-frequency signal analysis
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ EU Horizon (Clean Hydrogen Partnership) "North Adriatic Hydrogen Valley" (1.9.2023.-31.8.2029.) ▪ European project „INNO2MARE: Strengthening the Capacity for Excellence of Slovenian and Croatian Innovation Ecosystems to Support the Digital and Green Transitions of Maritime Regions“ (no. 101087348), (2023-2026) ▪ European project European Digital Innovation Hub „EDIH Adria“, (2023-2026) ▪ European project „STEM(AJMO!)“ funded by The European Social Fund, The Operational Programme Efficient Human Resources, call „Strengthening the Capacities of CSOs for popularisation of STEM“ (UP.04.2.1.10), (2021-2023). ▪ Principal investigator at the Faculty of Engineering on the EU funded IRI2 project with industry (Increasing the development of new products and services arising from research and development activities – phase II) "ABsistemDCiCloud", (no. KK.01.2.1.02.0179), (2020-2023) ▪ European Horizon 2020 project “National Competence Centres in the Framework of EuroHPC (EUROCC)”, (no. 1-6410-2020) H2020-JTI-EuroHPC-2019-2 (2020-2022) ▪ Member of committee on the European scientific project CA COST "A network for Gravitational Waves, Geophysics and Machine Learning"(no. COST CA17137), (2018-2022)
Scientific panel	Digital Signal Processing Artificial Intelligence

	Machine Learning
ORCID (link)	https://orcid.org/0000-0002-4058-8449
Personal or Research team's website	https://www.linkedin.com/in/jonatan-lerga-4007a285?originalSubdomain=hr
Contact e-mail	jonatan.lerga@riteh.uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Josip Peranić, Ph.D.
UNIRI Faculty	Faculty of Civil Engineering
Organisational unit / Research group	Department of Water and Geotechnical Engineering / Chair of Geotechnics
Research interests	<ul style="list-style-type: none"> ▪ Research on hydro-mechanical behaviour of unsaturated soils ▪ Integrating numerical and physical modelling ▪ Field monitoring ▪ SVA interaction and slope stability in hard soils and soft rocks
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Unsaturated soils ▪ Hydro-mechanical coupling ▪ Porous media modelling ▪ Slope stability ▪ Soil-vegetation-atmosphere interaction
EU-funded project experience	<ul style="list-style-type: none"> ▪ National funding of competitive scientific projects: <ul style="list-style-type: none"> ○ PI and leader of Installation Reserach Project ALAMO, 2026 - 2031 ○ Researcher on the Research project ModLandRemSS, 2018 – 2022 ▪ Interreg project ITHR0200175 RESONANCE: impRoving landslidE riSk preventiOn aNd mAnagement iN Coastal arEas (co-funded by the EU)
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0002-2574-6349
Personal or Research team's website	https://www.researchgate.net/profile/Josip-Peranic
Contact e-mail	josip.peranic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Leo Škec, PhD
UNIRI Faculty	Faculty of Civil Engineering (GRADRI)
Organisational unit / Research group	Chair of Applied Mechanics
Research interests	<ul style="list-style-type: none"> ▪ Computational mechanics ▪ Fracture and damage mechanics ▪ Adhesive joints ▪ Structural analysis ▪ Metamaterials ▪ Combined numerical–experimental methods for modelling and design of advanced structures
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Composite structures ▪ Adhesive joints ▪ Architected metamaterials ▪ Fracture mechanics ▪ Numerical modelling
EU or national-funded project experience	Information available on the personal website (see links below)
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0002-0074-7169
Personal or Research team's website	https://portal.uniri.hr/Portfolio/Details/846 https://www.researchgate.net/profile/Leo-Skec
Contact e-mail	leo.skec@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Marina Ivasic-Kos, PhD
UNIRI Faculty	Faculty of Informatics and Digital Technologies Centre for Artificial Intelligence
Organisational unit / Research group	Laboratory for Pattern Recognition and Soft Computing, Laboratory for Computer Vision, Virtual and Augmented Reality
Research interests	My research interests focus on the development of AI algorithms and computer vision models in various application domains such as sports, search and rescue operations, maritime.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Computer vision ▪ Deep learning ▪ Machine learning ▪ Object detection ▪ Object tracking
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ Horizon INNO2MARE, HORIZON-WIDERA-2022-ACCESS-04, 2022.-2026., leader for FIDIT, WP3, T3.3, ▪ DIGITAL4Security – European Masters Programme in Cybersecurity Management & Data Sovereignty, DIGITAL EU Horizon, 2023.-2027., leader for FIDIT ▪ Image-based AI-assisted diagnostics of canine ocular disease - AICODD, Animal Eye Consultants of Iowa, Iowa, USA, project leader; ▪ EDIH Adria, European Digital Innovation Hub Adriatic Croatia, DIGITAL-2021-EDIH-01, 2023.-2024., WP3 leader; ▪ HRZZ research project IP-2016-06-8345, Automatic recognition of actions and activities in the multimedia content of the sport domain - RAASS (2017-2020) - leader and principal scientist
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0002-1940-5089
Personal or Research team's website	https://vision.inf.uniri.hr/
Contact e-mail	marinai@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Miroslav Joler, PhD
UNIRI Faculty	Faculty of Engineering
Organisational unit / Research group	High-Frequency Applications Laboratory
Research interests	antenna design; antenna arrays; microwave devices; wearable electronics; wireless power transfer; bioelectromagnetics; electromagnetic modeling
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Antenna ▪ Wave propagation ▪ RF ▪ Microwaves ▪ Wireless
EU or national-funded project experience	Network of Excellence for Electromagnetic Communications (CRO) // Compact, Portable, Pulsed Power (USA)
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0001-8080-2342
Personal or Research team's website	https://www.mjoler.info
Contact e-mail	miroslav.joler@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Paolo Blecich, PhD
UNIRI Faculty	Faculty of Engineering
Organisational unit / Research group	Department of Thermodynamics and Energy Engineering
Research interests	AI-Energy-Climate Nexus, Renewable Energy, Energy Conversion and Management, Heat and Mass Transfer
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Energy Collection ▪ Conversion and Storage ▪ Renewable Energy ▪ Artificial Intelligence ▪ Sustainable Development and Nature Protection
EU or national-funded project experience	Collaborator on Fuel Cell Integration into Ship Power Systems (UNIRI) and Enhancement of the heat exchanger energy efficiency (Croatian Science Foundation)
Scientific panel	Information Science and Engineering
ORCID (link)	https://orcid.org/0000-0002-9678-3833
Personal or Research team's website	https://portal.uniri.hr/Portfolio/974
Contact e-mail	paolo.blecich@uniri.hr

4. Economic Sciences

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Borna Debelić, PhD
UNIRI Faculty	Faculty of Maritime Studies
Organisational unit / Research group	Department of Maritime Logistics and Management
Research interests	Research focused on commons governance and participatory allocation institutional analysis in the context of sustainability and coastal zone management related to transport and port systems.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Commons Governance ▪ Coastal Zone Management ▪ Transport Economics, Port Management ▪ Participatory Allocation
EU-funded project experience	<ul style="list-style-type: none"> ▪ Horizon 2020 ▪ Horizon Europe ▪ CEF ▪ CEF 2 ▪ Interreg
Scientific panel	Economic Sciences
ORCID (link)	https://orcid.org/0000-0002-2390-8666
Personal or Research team's website	https://portal.uniri.hr/portfelj/1717
Contact e-mail	borna.debelic@uniri.hr

5. Environmental Sciences

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Goran Volf, PhD
UNIRI Faculty	Faculty of Civil Engineering
Organisational unit / Research group	Chair of European Public Law
Research interests	Modelling of wastewater drainage systems, WWTPs and aquatic ecosystems; development of water quality models for drinking water and wastewater treatment, and water quality assessment.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Wastewater treatment plants ▪ Water quality models ▪ Machine learning ▪ Aquatic ecosystems
EU or national-funded project experience	
Scientific panel	Environmental and Geosciences
ORCID (link)	https://orcid.org/0000-0002-7058-9012
Personal or Research team's website	
Contact e-mail	goran.volf@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Nino Krvavica, PhD
UNIRI Faculty	Faculty of Civil Engineering
Organisational unit / Research group	Department of Water and Geotechnical Engineering
Research interests	<ul style="list-style-type: none"> ▪ Compound flooding in coastal regions, ▪ combining hydrodynamic modeling, ▪ extreme value statistics, and ▪ machine learning to improve prediction, risk assessment, and climate adaptation.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Hydrology ▪ Coastal engineering ▪ Flood risk ▪ Compound flooding ▪ Climate change adaptation
EU-funded project experience	<ul style="list-style-type: none"> ▪ Bridging science and society for climate solutions - GAIA COFUND (Horizon Europe) ▪ Compound Flooding in Coastal Croatia under Present and Future Climate - 4SeaFlood (Croatian Science Foundation) ▪ Applied Methodology for Integrated Multi-Hazard Assessment for Climate Change Adaptation - PRIMIS (EFRD)
Scientific panel	Environmental and Geosciences
ORCID (link)	https://orcid.org/0000-0001-5014-5476
Personal or Research team's website	https://4seaflood.uniri.hr/
Contact e-mail	nino.krvavica@uniri.hr

6. Chemistry

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Danijela Kalafatović, PhD
UNIRI Faculty	Faculty of Engineering
Organisational unit / Research group	Department of Materials Engineering
Research interests	My research focuses on peptide chemistry and supramolecular self-assembly, developing functional peptide materials by combining experimental with computational and AI approaches.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Peptide ▪ Self-assembly ▪ Supramolecular ▪ Generativeai
EU or national-funded project experience	PI on the national Croatian Science Foundation projects (UIP and IP); Chair and Grant Holder Scientific Representative of the CA23111 COST action; PI on several institutional projects
Scientific panel	Chemistry
ORCID (link)	https://orcid.org/0000-0002-9685-1162
Personal or Research team's website	https://riteh.uniri.hr/en/osoba/daniela-kalafatovic/
Contact e-mail	daniela.kalafatovic@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Duško Čakara, PhD
UNIRI Faculty	Faculty of Biotechnology and Drug Development
Organisational unit / Research group	Centre for Micro- and Nanosciences and Technologies (NANORI) Centre for Micro- and Nanosciences and Technologies / Laboratory for Colloids, Polyelectrolytes and Interfaces (LCPI)
Research interests	<ul style="list-style-type: none"> ▪ Ion binding to polyelectrolytes and surfaces ▪ Optical and electronic properties of composite thin films
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Spectroscopic ellipsometry ▪ Spectroscopy ▪ Surface charge ▪ Polyelectrolyte ▪ Ion binding
EU-funded project experience	<ul style="list-style-type: none"> ▪ 2024-2028: In-situ and operando organic electrochemical transistors monitored by non-destructive spectroscopies for organic CMOS-like neuromorphic circuits - ICONIC (principal investigator, : HORIZON-EIC-2023-PATHFINDEROPEN-01, GA 101129638) • ▪ 2013-2017: Organic bioelectronics - OrgBio, FP7 Marie Curie ITN project (No. 607896), PI and work package leader ▪ 2004: Charge-induced conformational changes of ionic polymers at charged surfaces, Swiss National Science Foundation, research project leader and winner of the postdoctoral fellowship for prospective researchers, project No. PBGE2-106924
Scientific panel	Chemistry
ORCID (link)	https://orcid.org/0000-0002-9617-9628
Personal or Research team's website	https://collsurf.uniri.hr/
Contact e-mail	dcakara@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Nela Malatesti, PhD
UNIRI Faculty	Faculty of Biotechnology and Drug Development
Organisational unit / Research group	Medicinal chemistry / PDT group
Research interests	Synthesis, characterisation and biological activity evaluation of new amphiphilic porphyrin-based photosensitisers (PSs) for anticancer and antimicrobial photodynamic therapy.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Porphyrin synthesis ▪ Photodynamic therapy ▪ Anticancer activity ▪ Antimicrobial activity ▪ Singlet oxygen
EU-funded project experience	<ul style="list-style-type: none"> ▪ 2025-2029: NPOO UNIRI, antimicrobial and anticancer PDT, nextgenerationeu ▪ HRZZ, anticancer PDT on melanoma ▪ COST paneucopt Action
Scientific panel	Chemistry
ORCID (link)	https://orcid.org/0000-0001-6983-6576
Personal or Research team's website	https://portfelj.uniri.hr/Portfolio/Details/2192
Contact e-mail	nela.malatesti@biotech.uniri.hr

7. Mathematics

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Marija Maksimović, PhD
UNIRI Faculty	Faculty of Mathematics
Organisational unit / Research group	Division of Discrete Mathematics
Research interests	My research focuses on graph theory and discrete mathematics, with emphasis on the construction of new structures and study of their properties.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Strongly regular graphs ▪ Orbit matrices ▪ Combinatorial designs ▪ Distance-biregular graphs
EU or national-funded project experience	
Scientific panel	Mathematics
ORCID (link)	https://orcid.org/0000-0002-8094-3724
Personal or Research team's website	https://portal.uniri.hr/portfelj/492
Contact e-mail	mmaksimovic@math.uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Assoc. Prof. Marijana Butorac, PhD
UNIRI Faculty	Faculty of Mathematics
Organisational unit / Research group	Division of Algebra and Number Theory
Research interests	Representation theory of affine Kac-Moody algebras: construction of Rogers-Ramanujan type combinatorial bases of highest weight modules by using the theory of vertex operator algebras.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Principal subspaces, ▪ Affine Lie algebras, ▪ Rogers-Ramanujan identities, ▪ Combinatorial bases
EU or national-funded project experience	<ul style="list-style-type: none"> ▪ Croatian Science Foundation IP-2025-02-4720 - Affine Lie algebras and quantum groups, (2025-2028) project leader; ▪ Collaborator: - 2020-2024 Quantum Current Algebras and Their Representation Theory, ▪ Croatian Science Foundation installation research project UIP-2019-04-8488; Principal Investigator: Associate professor Slaven Kožić; ▪ 2014-2018 Croatian Science Foundation grant 2634: Algebraic and combinatorial methods in vertex algebra theory, Principal investigator: Professor Dražen Adamović
Scientific panel	Mathematics
ORCID (link)	https://orcid.org/0000-0002-9644-943X
Personal or Research team's website	https://portal.uniri.hr/Portfolio/details/485
Contact e-mail	mbutorac@uniri.hr

SCIENTIFIC SUPERVISOR

Name and surname	Prof. Sanja Rukavina, Ph.D.
UNIRI Faculty	Faculty of Mathematics
Organisational unit / Research group	Division of Discrete Mathematics
Research interests	Research interests include design theory, graph theory, and coding theory, including their interplay and their connections to other areas of mathematics, as well as mathematics education.
Keywords (max. 5) connected to research interests	<ul style="list-style-type: none"> ▪ Combinatorial design ▪ Graph ▪ Automorphism group ▪ Linear code ▪ Mathematics education
EU-funded project experience	<p>Last 5 years:</p> <ul style="list-style-type: none"> ▪ ESF project: Strategic Internationalisation of Graduate Studies in Mathematics and Biotechnology – OPTILIFE, 2018 – 2021, project manager at the institution; ▪ Erasmus+ project, Enactive Learning in Mathematics at Home, 2021 – 2023, project manager at the institution; ▪ Erasmus+ project, DiToM – Diagnostic Tools in Mathematics, 2023 – 2025, associate; ▪ Erasmus+ project, European Classroom for Mathematics Teachers Training, 2025 – 2027, project manager at the institution
Scientific panel	Mathematics
ORCID (link)	Sanja Rukavina (0000-0003-3365-7925) - ORCID
Personal or Research team's website	https://www.math.uniri.hr/~sanjar/
Contact e-mail	sanjar@math.uniri.hr