Faculty of Mathematics, University of Rijeka

1.

SCIENTIFIC SUPERVISOR	
Name and Surname	Sanja Rukavina
UNIRI Faculty	Faculty of Mathematics
Organisational Unit / Research Group	Division of Discrete Mathematics
Research Team	Extremal codes: Dr. Sara Ban, assistant prof., UNIRI Dr. Matteo Mravić, UNIRI Distance-biregular graphs, combinatorial designs: Dr. Marija Maksimović, associate prof, UNIRI
EU-funded project experience	Last 5 years: - 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
Research Interests	My main research interests are in the areas of design theory, graph theory and coding theory, including the interplay between these areas and their connections to algebra, finite geometries, and other areas of mathematics. Some topics I am currently working on are the classification of 2-designs with presumed automorphism group, the construction of (near-)extremal codes over a finite field or Z_2k, and the characterization of distance-biregular graphs as incidence graphs of combinatorial designs.
ORCID (link)	Sanja Rukavina (0000-0003-3365-7925) - ORCID

Personal or Research Team's Website	Sanja Rukavina personal web page (uniri.hr) Sanja Rukavina – Fakultet za matematiku (uniri.hr)
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2.

SCIENTIFIC SUPERVISOR	
Name and Surname	Dean Crnković
UNIRI Faculty	Faculty of Mathematics
Organisational Unit / Research Group	Division of Discrete Mathematics
Research Team	Andrea Švob Doris Dumičić Danilović Tin Zrinski Nina Mostarac
EU-funded project experience	Strategic Internationalisation of Graduate Studies in Mathematics and Biotechnology – OPTILIFE, 2018 – 2021 (ESF project)
Research Interests	Combinatorial designs, graphs, codes
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3.

SCIENTIFIC SUPERVISOR	
Name and Surname	Andrea Švob
UNIRI Faculty	[Faculty of Mathematics](#)
Organisational Unit / Research Group	Division of Discrete Mathematics
Research Team	[Dean Crnković](#) [Doris Dumičić Danilović](#)
EU-funded project experience	-
Research Interests	**Combinatorial structures** – designs, graphs, error-correcting codes, group action on combinatorial structures
ORCID (link)	https://orcid.org/0000-0001-6558-5167
Personal or Research Team's Website	https://www.math.uniri.hr/~asvob/
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4.

SCIENTIFIC SUPERVISOR	
Name and Surname	Marijana Butorac
UNIRI Faculty	[Faculty of Mathematics](#)
Organisational Unit / Research Group	Division of Algebra and Number Theory
Research Team	-
EU-funded project experience	-
Research Interests	Research interests lie in the interconnected areas of algebra and combinatorics. Specifically, topics offered to MSCA postdocs will be related to the construction of Rogers-Ramanujan type combinatorial bases of highest weight modules and their subspaces associated to the infinite dimensional Lie algebras by using the theory of vertex operator algebras.
ORCID (link)	https://orcid.org/0000-0002-9644-943X
Personal or Research Team's Website	[UNIRI | Marijana Butorac](#)
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5.

SCIENTIFIC SUPERVISOR	
Name and Surname	Daniel Hawtin
UNIRI Faculty	Faculty of Mathematics
Organisational Unit / Research Group	Combinatorics and Discrete Mathematics
Research Team	N/A
EU-funded project experience	N/A
Research Interests	Algebraic symmetry of codes in graphs. Permutation codes and frequency permutation arrays. q-Analogues of codes and designs. Algebraic symmetry of q-analogues of graphs.
ORCID (link)	https://orcid.org/0000-0002-6466-4282
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