Obrad KASUM

1 Education

2021-2024 PhD in Mathematical Logic and Foundations of Computer Science
University Paris Cité (France)
Thesis title (subject to change): *Axiom of Determinacy and Forcing Axioms*
Advisors: Boban Veličković, Grigor Sargsyan

2020-2021 MSc in Mathematical Logic and Foundations of Computer Science
University Paris Cité (France)
Average grade: 19.75 (out of 20.00)
Master thesis: *Projective Determinacy*
Supervisors: Boban Veličković, Grigor Sargsyan

2015-2019 BSC in Theoretical Mathematics and Applications
Faculty of Mathematics, University of Belgrade (Serbia)
Average grade: 10.00 (out of 10.00)

2011-2015 High School
Mathematical Grammar School, Belgrade (Serbia)

2 Grants

2021-2024 Cofund MathInParis2020
Marie Skłodowska-Curie Action
PhD grant

2020-2021 Paris Graduate School of Mathematics
Fondation Sciences Mathématiques de Paris
MSc scholarship

3 Teaching

2019/20 Linear Algebra
Faculty of Mathematics, University of Belgrade (Serbia)
Exercise sessions, 10h per week for two semesters

2018/19 Analysis I
Faculty of Mathematics, University of Belgrade (Serbia)
Exercise sessions, 4h per week for one semester

4 Publications

2023 Marginalia to a Theorem of Asperó and Schindler
<u>Obrad Kasum</u>, Boban Veličković
arXiv

2023 Local Definability of HOD in $L(\mathbb{R})$
<u>Obrad Kasum</u>
arXiv

2023 Iterating Semi-proper Forcing using Virtual Models
Obrad Kasum, Boban Veličković
arXiv

2018 Measures and Metrics of Biological Signals
Obrad Kasum, Aleksandar Perović, Aleksandar Jovanović
Frontiers in Physiology, Vol. 9, 2018

2015 Brain connectivity extended and expanded
Obrad Kasum, Edin Dolićanin, Aleksandar Perović, Aleksandar Jovanović
EPJ Nonlinear Biomedical Physics, Vol. 3, Iss. 1, 2015

2015 Extracting noise contaminated information in multiple sources
Obrad Kasum, Edin Dolićanin, Aleksandar Perović, Aleksandar Jovanović
2015 IEEE 13th International Symposium on Intelligent Systems & Informatics (SISY), 2015, p117-121

2014 A specific spectroscopy of microscopic images with improved small object or artifact perception and manipulation
Nebojša Perić, Obrad Kasum, Aleksandar Perović, Aleksandar Jovanović
2014 IEEE 12th International Symposium on Intelligent Systems & Informatics (SISY), 2014, p285-288

2014 Enhancing microscopic imaging for better object and structural detection, insight and classification
Aleksandar Jovanović, Obrad Kasum, Nebojša Perić, Aleksandar Perović
Microscopy: advances in scientific research and education (A. Méndez-Vilas, ed.), FORMATEX Microscopy Series, book no. 6, Vol 2, p650-661

5 Talks

2024 Local Definability of HOD in $L(\mathbb{R})$
Core Model Seminar
Carnegie Mellon University (Pittsburgh, United States of America)

2023 Marginalia to a Theorem of Asperó and Schindler
Simon's Semester
University of Gdańsk (Poland)

2023 The Basics of Descriptive Inner Model Theory
Working Group in Set Theory
Institut de Mathématiques de Jussieu – Paris Rive Gauche, Paris (France)

2023 Class HOD in models of Axiom of Determinacy
Seminar for Mathematical Logic
Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade (Serbia)

2023 Logical complexity, large cardinals, and determinacy
Seminar of the Division for Real Functions
University of Gdańsk (Poland)

2023 Models of Set Theory
Seminar "Bourbakette" of PhD students in Mathematics of building "Sophie Germain"
University Paris Cité (France)

2022 Basic Ideas of Inner Model Theory
Seminar of PhD students in Set Theory
University Paris Cité (France)

2021 Mini-course on Stationary Tower Forcing and Chang Model
Seminar of PhD students in Set Theory
University Paris Cité (France)

2021 Borel Determinacy
Presentation for course "Large Cardinals" (by Boban Veličković)
University Paris Cité (France)

2016 Real-valued Measurable Cardinals
Seminar for Mathematical Logic
Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade (Serbia)

2015 Types in Unification Theory
Conference "ETRAN 2015", Srebrno jezero (Serbia)

2013 Opinion on book "Mathematical Logic: Elements of Set Theory" (by Žarko Mijajlović and Zoran Petrović)
Seminar for Mathematical Logic
Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade (Serbia)