Postdoctoral Fellow at Grand Challenges Initiative Chapman University Schmid College of Science and Technology; Department of Mathematics One University Drive, Orange, CA

Education

Education	
Ph.D. in Mathematics, University of Zagreb, Croatia	2020
Dissertation: <i>Multilinear singular integrals associated with hypergraphs</i> Advisor: Vjekoslav Kovač Graduated with highest distinction (summa cum laude).	
M.Sc. in Theoretical Mathematics, University of Zagreb, Croatia	2015
Thesis: Wavelet characterizations of Sobolev spaces Advisor: Vjekoslav Kovač Graduated with highest distinction (summa cum laude).	
B.Sc. in Mathematics, University of Zagreb, Croatia	2013
Employment	
Postdoctoral Fellow in the Grand Challenges Initiative, Chapman University, California, USA 20)21 - Present
Postdoctoral Fellow at Faculty of Science, University of Zagreb, Croatia	2021
Teaching Assistant at Faculty of Science, University of Zagreb, Croatia	2015 - 2021
Awards	
"Brdo" Award for the best teaching assistant in Department of Mathematics, Faculty of Science	2020
Best presentation, 4^{th} symposium of students of doctoral studies, Faculty of Science	2020
Rector's award for the best student work of scientific content, University of Zagreb	2015

Award for the most successful student of Graduate University Program in Theoretical Mathematics

Award for the most successful student of Undergraduate University Program in Mathematics

2015

2013

Teaching experience

• Probability

Chapman University (Instructor of Record)

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• First Year Foundations: Equity and Inclusion in Science and Engineering (two sections)	Fall 2022
 Grand Challenges in Science I (two sections) Grand Challenges in Science III (two sections) 	Spring 2022
 First Year Foundations: Climate Change in Science and Engineering Grand Challenges in Science II (two sections) 	Fall 2021
Faculty of Science, University of Zagreb (Teaching Assistant)	
 Complex Analysis Computer Programming I Fourier Series and Applications Measure and Integration (two sections) 	Spring 2021
 Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	Fall 2020
• Measure and Integration (two sections)	Spring 2020
 Introduction to Mathematics (Basics of Mathematical Logic, Calculus and Number Theory) Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	Fall 2019
Fourier Series and ApplicationsMeasure and Integration	Spring 2019
 Introduction to Mathematics (Basics of Mathematical Logic, Calculus and Number Theory) Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	Fall 2018
Measure and Integration (two sections)	Spring 2018
 Discrete Mathematics (Combinatorics) (Combinatorics, Introduction to Graph Theory) 	Fall 2017
Introduction to Mathematics	
 Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	
Fourier Series and ApplicationsMeasure and Integration	Spring 2017
 Differential and Integral Calculus II Discrete Mathematics (Combinatorics, Introduction to Graph Theory) Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	Fall 2016
Complex AnalysisFundamentals of Mathematic AnalysisMeasure and Integration	Spring 2016
 Mathematics for Biology Program (Introduction to Calculus and Linear Algebra) 	Fall 2015

Faculty of Electrical Engineering and Computing, University of Zagreb (Teaching Assistant)

Probability and Statistics
 Spring 2017

• Mathematics III for Computer Science Program

Fall 2016

- o (Multivariable Calculus, Fourier Series, Combinatorics, Graph Theory)
- Mathematics II
 Spring 2016
 - o (Vector Geometry, Euclidean Geometry, Calculus, Infinite Series, Differential Equations)
- Mathematics III for Computer Science Program

Fall 2015

o (Multivariable Calculus, Fourier Series, Combinatorics, Graph Theory)

Department of Mathematics, Faculty of Science (Student Learning Assistant)

• Computer Programming II Spring 2014

• Measure and Integration

Computer Programming I
 Fall 2013

• Mathematical Logic

Computer Programming II
 Spring 2013

· Computing Lab I

Computer Programming I
 Fall 2012

• Differential Calculus of Functions of Several Variables

Computer Programming II
 Spring 2012

• Mathematical Analysis II

Computer Programming I
 Fall 2011

• Mathematical Analysis I

Training and Education

• Entering Mentoring Workshop, Chapman University, California, USA 2022

• Facilitating Difficult Discussions Worshop, Chapman University, California, USA

• The School of Public Speaking, Heureka Education Center, Zagreb, Croatia 2019

Research Publications

- [3] P. Durcik, M. Stipčić, *Quantitative bounds for products of simplices in subsets of the unit cube*, preprint, arXiv:2206.10004.
- [2] V. Kovač, M. Stipčić, *Convergence of the ergodic-martingale paraproduct.* Stat. Probab. Lett. **164** (2020), Article 108826, 6 pp., arXiv:2003.03651
- [1] M. Stipčić, *T*(1) theorem for dyadic singular integral forms associated with hypergraphs. J. Math. Anal. Appl. **481** (2020), no. 2, Article 123496, 27 pp., arXiv:1902.10462

Contribution at Scientific Events

Talks at conferences, seminars, workshops and summer schools

• Nodal domains and landscape functions, Kopp, Germany (expository talk)

2022

- UCLA participating analysis seminar, UCLA, Los Angeles, CA, USA
- 2022 Workshop on Operator Theory with an Eye on Linear Systems and Hypercomplex Analysis, Chapman University, CA, USA
- 7th Croatian Mathematical Congress, University of Split, Split, Croatia

• Probability seminar for Ph.D. students, University of Zagreb, Zagreb, Croatia	
 Analysis and Geometry seminar, Chapman University, CA, USA 	2021
 Probability Seminar at University of Zagreb, Croatia (a series of three seminars) 	2020
 Zagreb Workshop on Operator Theory, University of Zagreb, Croatia 4th symposium of students of doctoral studies at the Faculty of Science, University of Za 	agreb, Croatia
• Mini-courses in Mathematical Analysis, Padua, Italy	2019
Mini-courses in Mathematical Analysis, Padua, ItalyProbabilistic Aspects of Harmonic Analysis, Będlewo, Poland	2018
Functional Analysis Seminar at University of Zagreb, CroatiaGeometry Seminar at University of Zagreb, Croatia	2017
• Probability Seminar at University of Zagreb, Croatia	2016
Poster showcase at scientific events	
 Faculty Research and Creative Scholars Expo, Chapman University, Orange, CA, USA A Young Researchers Symposium in Harmonic Analysis, Edinburgh, Scotland 	2022
Participation at Scientific Events	
• Fourier Analysis @200, Edinburgh, Scotland	2022
• Probability, Analysis, and Applications, Zagreb, Croatia	2019
Analysis and Applications, Wrocław, Poland1st Korean Croatian Summer Probability Camp, Zagreb, Croatia	2017
 Young Women in Harmonic Analysis and PDE, Bonn, Germany New Aspects of the Time Frequency Analysis involving Fréchet Frames, Novi Sad, Serbia 6th Croatian Mathematical Congress, Zagreb, Croatia 	2016 a
Engagement with the Community	
Organizer of Analysis and Geometry Seminar at Chapman University	2022 - present
Judge at California Science and Engineering Fair	2022

- Coordinator and presenter at the University of Zagreb Fair for Department of Mathematics, Faculty of 2016 - 2020 Science
- Volunteer instructor for the local *School Group* 2011-2018
 - o Main goal of the group: providing free tutoring for elementary and high school students.
 - o I worked with students (individually or in groups) on weekly basis as an instructor in Mathematics, Informatics, Logics and other subjects.
 - o I served as one of the main volunteer coordinators by designing and facilitating tutoring sessions, organizing formative meetings and team building activities, recruiting new volunteers and providing a support to students and their parents.
- Member of the association Young Talented Mathematicians "Marin Getaldić" 2010-2012
 - o Main goal of the association: popularizing Mathematics and supporting school students interested in extracurricular mathematical activities.
 - o I was the main organizer of the high school competition *Tournament of Towns* in Zagreb
 - o I was the team leader at Summer Conference of the Tournament of Towns in Russia, 2012, which was the final stage of the abovementioned competition.