Franjo Šarčević — Curriculum Vitae

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Personal Information

Date of birth:	January 22, 1991	Office:	444/IV
Nationality:	Bosnian-Herzegovinian and Croatian	Phone:	+387 33 279 937
Work Address:	Department of Mathematics	Mobile Phone:	+387 63 803 804
	Faculty of Natural Sciences and Mathematics	Email Address:	franjo.sarcevic@live.de
	Zmaja od Bosne 33-35		franjo.sarcevic@pmf.unsa.ba
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	Sarajevo, Bosnia and Herzegovina, 71000	Children:	1 (born in 2020)

Education

- Ph.D. in Mathematics — University of Sarajevo (advisor: Ismar Volić) — 2020
- M.A. in Mathematics — University of Sarajevo (advisor: Nacima Ouis-Memić) — 2014
- B.A. in Mathematics — University of Sarajevo — 2012

Positions Held

- Senior Teaching Assistant — Department of Mathematics, University of Sarajevo — 2018–present
- Teaching Assistant — Department of Mathematics, University of Sarajevo — 2015–2018
- Research Assistant — Faculty of Electrical Engineering, University of Sarajevo — 2014–2015, 2017–2018

Visiting Positions

- Visiting Researcher — Wellesley College (USA, MA) — Spring 2016
- Visiting Researcher — Wellesley College (USA, MA) — Spring 2019

Teaching Experience

Teaching assistant for:

- Topology
- Set Theory
- Mathematical Logic
- Discrete Mathematics
- Introduction to Mathematics
- Calculus (all levels)
- Complex Analysis
- Ordinary Differential Equations
- Linear Algebra
- Abstract Algebra
- Probability and Statistics
- Mathematics for Engineers

Selected Seminar/Colloquium/Conference Talks

- Young Topologists Meeting 2019; EPFL, Lausanne (Switzerland), July 2019
- Wellesley College Student seminar; Wellesley (USA), April 2019
- Pacific Institute for the Mathematical Sciences, a workshop on topology; Vancouver (Canada), May 2018
- University of Tuzla Colloquium; Tuzla (Bosnia-Herzegovina), March 2018
- University of Sarajevo Colloquium; Sarajevo (Bosnia-Herzegovina), March 2017

Awards and Activities

- Award for the graduating student of the year at the Faculty of Natural Sciences and Mathematics, University of Sarajevo — 2014
- Co-founder and editor-in-chief of the Society & Culture Web Magazine Prometej.ba — 2011–present
- An affiliate of the Institute for Mathematics and Democracy — 2020–present

Other Activities

- I teach in the School of mathematics for gifted middle school students organized by the Mathematical Society of the Sarajevo Canton (2018–present).
- I was in the Scientific Committee for the 12th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences in Bosnia-Herzegovina (2021)
- I was the deputy leader of the Bosnian-Herzegovinian team in the 32nd Balkan Mathematical Olympiad, which was held in Athens, Greece, from 3rd of May to 8th of May 2015
- I have written over 250 articles about politics, science popularization, mathematics, literature... published on Prometej.ba and other web-sites. In 2018 I have edited a book of Prometej.ba selected articles. Some of my articles have been translated into English and published abroad.
- I am a monthly columnist for the website Fokus.ba (2018–present).
- My interview with the German journalist Michael Martens was published in the book "San zvan Jugoslavija" (A Dream Called Yugoslavia), Ljevak, Zagreb, 2021
- I have participated as a speaker in several roundtable events in Bosnia-Herzegovina on a variety of topics (peacebuilding, religion and social issues...) as well as a presenter of several books.

Publications

Papers:

1. *A model of preferential attachment in voting networks*, with with H. Šiljak and I. Volić, in preparation.

2. *Homological convergence of the manifold calculus Taylor tower for r-immersions in $\mathbb{R}^n$*, with G. Arone, in preparation.

3. *Low stages of the Taylor tower for r-immersions*, with B. Schreiner and I. Volić, Involve: A Journal of Mathematics 13 (2020), no. 1, 51-75.

4. *Toward finite models for stages of the Taylor tower for embeddings of the 2-sphere*, with A. Bolić and I. Volić, in Advanced Technologies, Systems, and Applications IV, Springer (2020), 1–13.

5. *A streamlined proof of the convergence of the Taylor tower for embeddings in $\mathbb{R}^n$*, with I. Volić, Colloq. Math. 156 (2019), no. 1, 91–122.

Books:

1. *Group Actions*, with I. Volić, in preparation.

2. *Osnove opće i algebarske topologije* (in Croatian), in preparation.