

# Antonela Trbović

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## Research interests

Torsion subgroups of elliptic curves over number fields of small degree

## Professional experience

Jan 2018 – **Research Assistant**, Department of Mathematics, University of Zagreb

## Education

2017 – 2021 **Doctor of Science** in Mathematics – University of Zagreb  
advisor: Professor Filip Najman

2015 – 2017 **Master of Science** in Mathematics – University of Zagreb

2012 – 2015 **Bachelor of Science** in Mathematics – University of Zagreb

## Publications

- 2021 **Tamagawa numbers of elliptic curves with prescribed torsion subgroup or isogeny**  
A. Trbović.  
*J. Number Theory, to appear.*
- 2021 **Splitting of primes in number fields generated by points on some modular curves**  
F. Najman, A. Trbović.  
*submitted.*

2020 **Fields of definition of elliptic fibrations on covers of certain extremal rational elliptic surfaces**  
V. Cantoral-Farfán, A. Garbagnati, C. Salgado, A. Trbović, R. Winter.  
*Women in Numbers Europe III: Research Directions in Number Theory. Papers from the Workshop (WIN-E3) held at La Hublais, Cesson-Sévigné (France), August 26-30, 2019. Edited by Alina Cojocaru, Sorina Ionica and Elisa Lorenzo García. Association for Women in Mathematics Series. Springer.*

2019 **Torsion groups of elliptic curves over quadratic fields  $\mathbb{Q}(\sqrt{d})$ ,  $0 < d < 100$**   
A.Trbović.  
*Acta Arith. 192 (2020), 141-153.*

2019 **Torsion groups of elliptic curves over quadratic fields**  
A.Trbović.  
*Contemporary Mathematics 732 (2019), 253-255.*

## Conferences, Workshops and Summer Schools

2022 **Joint Mathematics Meetings 2022** – Seattle, USA  
5–8 January 2022.

2020 **Modern Breakthroughs in Diophantine Problems** – online  
30 August–4 September 2020.

2020 **20th Central European Conference on Cryptology** – Zagreb, Croatia  
24-26 June 2020.

2020 **Group Actions in Arithmetic and Geometry** – Yogyakarta, Indonesia  
17-28 February 2020.

2019 **Barcelona Fall Workshop on Number Theory II** – Barcelona, Spain  
5-7 December 2019.

2019 **Women in Numbers Europe 3** – Rennes, France  
26-30 August 2019.

2019 **Representation Theory XVI** – Dubrovnik, Croatia  
24-29 June 2019.

2019 **CMI-HIMR Summer School in Computational Number Theory** – Bristol, UK  
17–28 June 2019.

2019 **Elliptic Curves: Arithmetic and Computation** – Montevideo, Uruguay  
11-22 February 2019.

- 2018 **Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Forms and Related Topics** – Budapest, Hungary  
9-20 July 2018.
- 2018 **Canadian Number Theory Association Conference XV** – Quebec, Canada  
9-13 July 2018.
- 2018 **Explicit and computational approaches to Galois representations** – Luxembourg, Luxembourg  
3-7 July 2018.
- 2018 **Torsion groups and Galois representations of elliptic curves** – Zagreb, Croatia  
25-29 June 2018.
- 2016 **Building Bridges: 3rd EU/US Summer School + Workshop on Automorphic Forms and Related Topics** – Sarajevo, Bosnia and Herzegovina  
11-22 July 2016.

## Talks

- Dec 2021 Tamagawa numbers of elliptic curves with prescribed torsion subgroup or isogeny  
*Graz Number Theory Seminar, Graz, Austria*
- Nov 2020 Splitting of primes in number fields generated by points on some modular curves  
*Linfoot Number Theory Seminar, Bristol, UK*
- Jun 2019 Torsion groups of elliptic curves over number fields of small degree  
*Representation Theory XVI, Dubrovnik, 24-29 June 2019*
- Jul 2018 Torsion groups of elliptic curves over quadratic fields  $(\sqrt{d})$ ,  $0 < d < 100$   
*Building Bridges: 4th EU/US Summer School + Workshop on Automorphic Forms and Related Topics, Budapest, 9-20 July 2018*
- Jul 2018 Torsion groups of elliptic curves over quadratic fields  $(\sqrt{d})$ ,  $0 < d < 100$   
*Explicit and computational approaches to Galois representations, Luxembourg, 3-7 July 2018*
- Jun 2018 Torsion groups of elliptic curves over quadratic fields  $(\sqrt{d})$ ,  $0 < d < 100$   
*Torsion groups and Galois representations of elliptic curves, Zagreb, 25-29 June 2018*
- Jul 2016 Torsion groups of elliptic curves over quadratic fields  
*Building Bridges: 3rd EU/US Summer School + Workshop on Automorphic Forms and Related Topics, Sarajevo, 11-22 July 2016*

## Teaching experience

- 2021./2022. **Teaching assistant**  
Number theory, Linear algebra 1, Linear algebra 2.
- 2020./2021. **Teaching assistant**  
Number theory, Linear algebra 2, Constructive methods in geometry.
- 2019./2020. **Teaching assistant**  
Number theory, Linear algebra 2, Complex analysis.
- 2018./2019. **Teaching assistant**  
Number theory, Linear algebra 2.
- 2017./2018. **Teaching assistant**  
Number theory, Introduction to differential geometry.

## Honors and scholarships

- 2017 Award of Department of Mathematics for academic year 2016./2017. for best students of final year of graduate programmes
- 2016 Rector's award for academic year 2015./2016. for paper *Torsion subgroups of elliptic curves over quadratic fields*
- 2015 Award of Department of Mathematics for academic year 2014./2015. for best students of final year of undergraduate programmes
- 2013 – 2017 City of Kastav scholarship