

CURRICULUM VITAE

SONJA ŽUNAR

General Information

Birthdate: February 20, 1991
Birthplace: Varaždin, Croatia
Nationality: Croatian

Academic Degrees

Ph.D. 2018 Zagreb, Croatia
M.Sc. 2014 Zagreb, Croatia
B.Sc. 2012 Zagreb, Croatia

Ph.D. Advisor

Goran Muić

Specialization

Automorphic forms and representation theory

Academic Positions

2022– Assistant professor, Faculty of Geodesy, University of Zagreb
2019–2022 Postdoctoral researcher, Department of Mathematics, University of Zagreb
2015–2019 Assistant, Department of Mathematics, University of Zagreb

Papers

1. *On the notion of the parabolic and the cuspidal support of smooth-automorphic forms and smooth-automorphic representations* (with Harald Grobner). Preprint.
<https://arxiv.org/abs/2108.06369>
2. *On a family of Siegel Poincaré series*. Int. J. Number Theory 19(9), 2215–2239 (2023)
DOI: <https://doi.org/10.1142/S1793042123501087>

3. *Non-vanishing of vector-valued Poincaré series*. J. Number Theory 224, 217–242 (2021)
DOI: <https://doi.org/10.1016/j.jnt.2021.01.007>
4. *On the Schwartz space $\mathcal{S}(G(k)\backslash G(\mathbb{A}))$* (with G. Muić). Monatsh. Math. 192(3), 677–720 (2020)
DOI: <https://doi.org/10.1007/s00605-020-01407-6>
5. *On the non-vanishing of L-functions associated to cusp forms of half-integral weight*. Ramanujan J. 51, 455–477 (2020)
DOI: <https://doi.org/10.1007/s11139-019-00135-2>
6. *On Poincaré series of half-integral weight*. Glas. Mat. 53(2), 239–264 (2018)
DOI: <https://doi.org/10.3336/gm.53.2.03>
7. *On the non-vanishing of Poincaré series on the metaplectic group*. Manuscripta Math. 158(1–2), 1–19 (2019)
DOI: <https://doi.org/10.1007/s00229-018-1011-6>

Talks

1. October 2022, Representation Theory XVII, Inter-University Centre Dubrovnik, Dubrovnik, Croatia (invited speaker)
2. September 2022, Automorphic Forms Conference, Erdős Center, Budapest, Hungary
3. August 2022, ELAZ 2022 (Elementare und analytische Zahlentheorie), Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland
4. June 2022, Workshop on “Arthur packets and related problems”, Department of Mathematics, University of Zagreb, Croatia
5. June 2022, 7th Croatian Mathematical Congress (CroMC), Faculty of Science, University of Split, Croatia
6. April 2022, workshop “Minimal Representations and Theta Correspondence”, Erwin Schrödinger International Institute for Mathematics and Physics (ESI), Vienna, Austria (invited speaker)
7. March 2022, conference “Young Scholars in the Analytic Theory of Numbers and Automorphic Forms” (FANTASY 2022), Mathematical Institute, University of Bonn, Germany (invited speaker)
8. September 2021, conference “Women in automorphic forms”, Bielefeld University, Bielefeld, Germany
9. March 2020, Seminar “Representation Theory and Automorphic Forms”, Faculty of Mathematics, University of Vienna, Vienna, Austria
10. June 2019, conference “Representation Theory XVI”, Inter-University Centre Dubrovnik, Dubrovnik, Croatia
11. May 2019, Number Theory Seminar, Faculty of Mathematics, University of Vienna, Vienna, Austria
12. March 2019, conference “The 33rd Automorphic Forms Workshop”, Duquesne University, Pittsburgh, USA

13. May 2018, workshop “On some recent developments in local and global representation theory”, University of Zagreb, Zagreb, Croatia.

Professional Experience

1. September 2023, conference “Modular curves and Galois representations”, Zagreb, Croatia
2. January–March 2020, senior research fellow, Faculty of Mathematics, University of Vienna, Vienna, Austria
3. November 2018, conference “Arithmetic and L-Functions”, Besançon, France
4. November 2016, conference “Representation Theory of Finite and p-adic Groups of Lie Type”, CIRM, Marseille Luminy, France
5. May 2016, research school “Introduction to Relative Aspects in Representation Theory, Langlands Functoriality and Automorphic Forms”, CIRM, Marseille Luminy, France.