

Curriculum VITAE

PERSONAL DATA

NAME AND SURNAME: Serhii Bardyla
PLACE AND DATE OF BIRTH: Lviv, Ukraine | 18 June 1992
CURRENT RESIDENCE: Vienna, Austria
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WORK EXPERIENCE

OCTOBER 2020– SEPT 2022 | Postdoctoral fellow at the Institute of Mathematics, University of Vienna.

JAN 2019– SEPT 2020 | Postdoctoral fellow at Kurt Gödel Research Center, University of Vienna.

SEPT 2017– DEC 2018 | Assistant at the department of Discrete Analysis and Intelligent System, Ivan Franko National University of Lviv, Ukraine.

SEPT 2016– DEC 2018 | Junior researcher at the department of Geometry and Topology, Ivan Franko National University of Lviv, Ukraine.

EDUCATION

NOV 2014–DEC 2017 | PhD student at the department of Geometry and Topology, Ivan Franko National University of Lviv, Ukraine.
PhD Thesis: “Completeness of topological semilattices and semigroups” (in ukrainian).
Advisor: Prof. Oleg Gutik.

SEPT 2013–JUNE 2014 | Master student at the faculty of Mechanics and Mathematics, Ivan Franko National University of Lviv, Ukraine.
Master Thesis: “H-closed topological semilattices” (in ukrainian).
Advisor: Prof. Oleg Gutik.
Master Degree with honour.

SEPT 2009–JUNE 2013 | Undergraduate student at the faculty of Mechanics and Mathematics, Ivan Franko National University of Lviv, Ukraine.
Undergraduate Degree with honour.

CONFERENCES

- The 54th Spring Topology and Dynamical Systems Conference, Murray, USA, 2021.
Abstract: S. Bardyla: ”On regular countably compact \mathbb{R} -rigid spaces”.
- Kyiv Algebra 2020, Kyiv, Ukraine, 2020.
Abstract: S. Bardyla: ”On semitopological graph inverse semigroups”, p.15.

- Catania Set-theory & Topology, Catania, Italy, 2020.
Abstract: S. Bardyla, A. Osipov: "On regular countably compact spaces admitting only constant continuous mappings into a given space", p.30.
- Set-theoretic methods in topology and real functions theory, Kosice, Slovakia, 2019.
Abstract: S. Bardyla: "Subspaces of compact-like topological spaces", p.23.
- The 14-th Summer School "Analysis, Topology, Algebra and applications", Pidzakharychi village, Ukraine, 2019.
Abstract: S. Bardyla: "Cardinal characteristics of the lattice of shift-continuous topologies on the bicyclic monoid with an adjoined zero", p.6.
- 7-th European Set Theory Conference, Vienna, Austria, 2019.
- 12-th Young Set Theory Workshop (Advanced Class in Set Theory), Vienna, Austria, 2019.
- Interdisciplinary Colloquium in Topology and its Applications, Vigo, Spain, 2019.
Abstract: S. Bardyla: "Subspaces of ω -bounded topological spaces", p.45–48.
- International conference "Semigroups and Groups, Automata, Logics", Cremona, Italy, 2019.
Abstract: S. Bardyla: "Semitopological graph inverse semigroups", p.39.
- Winter School in Abstract Analysis (Set Theory and Topology), Hejnice, Czech Republic, 2019.
Abstract: S. Bardyla: "Dense and closed subsets of compact-like topological spaces".
- The 13-th summer school "Analysis, Topology and Applications", Vyzhnytsya, 2018.
Abstract: S. Bardyla: "Weak topologies on topologized semilattices", p.8.
- International scientific conference «Dynamical Methods in Algebra, Geometry and Topology», Udine, Italy, 2018.
Abstract: T. Banakh, S. Bardyla: "On complete semitopological semilattices".
- International scientific conference «Algebraic and geometric methods of analysis», Odesa, 2018.
Abstract: S. Bardyla, H. Kvasnytsia: "Semitopological graph inverse semigroups", p.4.
- Winter School in Abstract Analysis (Set Theory and Topology), Hejnice, Czech Republic, 2018.
Abstract: S. Bardyla: "On locally compact semitopological graph inverse semigroups".
- Winter School in Abstract Analysis (Analysis), Svratka, Czech Republic, 2018.
Abstract: S. Bardyla: "On locally compact semitopological graph inverse semigroups".
- International Conference in Functional Analysis dedicated to the 125-th anniversary of Stefan Banach, Lviv, 2017.
Abstract: S. Bardyla: "Topological graph inverse semigroups", p.32.
- XII summer school "Algebra, Topology and Analysis", Kolochava, 2017.
Abstract: S. Bardyla: "Topological graph inverse semigroups", p.58.
- International scientific conference «Algebraic and geometric methods of analysis», Odesa, 2017.
Abstract: S. Bardyla: "On a semitopological α -bicyclic semigroup", p.45.

- Winter School in Abstract Analysis (Set Theory and Topology), Hejnice, Czech Republic, 2017.
Abstract: S. Bardyla: "On the semitopological locally compact α -bicyclic monoid".
- The international conference dedicated to the 120-th anniversary of Kazimierz Kuratowski, Lviv, 2016.
Abstract: S. Bardyla, O. Gutik: "The embeddings and closures of a topological λ -polycyclic monoid", p.9.
- XI summer school "Algebra, Topology and Analysis", Odesa, 2016.
Abstract: S. Bardyla, O. Gutik: "The embeddings and closures of a topological λ -polycyclic monoid", p.34.
- 7-th European Congress of Mathematics, Berlin, 2016.
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.379.
- The international conference "Geometry and topology in Odessa", Odesa, 2016.
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.13.
- X summer school "Algebra, Topology and Analysis", Odesa, 2015.
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.67.
- Conference dedicated to the 100-th anniversary of K.M.Fishman and M.K.Fage, Chernivtsy, 2015.
Abstract: S. Bardyla, O. Gutik: "On a semitopological λ -polycyclic monoid", p.134-135.
- Workshop, Hradec Kralove, Czech Republic, 2014.
- IX international algebraic conference of Ukraine, Lviv, 2013.
Abstract: S. Bardyla, O. Gutik: "On H-complete topological semilattices", p.20.
- International conference dedicated to the 120-th anniversary of Stefan Banach, Lviv, 2012.
Abstract: S. Bardyla, O. Gutik: "An example of an H-complete topological semilattice which is not AH-complete", p.76.

PREPRINTS

1. T. Banakh, S. Bardyla: "Categorically closed countable semigroups", arXiv:2111.14154.
2. S. Bardyla, J. Supina, L. Zdomskyy: "Ideal approach to convergence in functional spaces", arXiv:2111.05049.
3. S. Bardyla "On topological McAlister semigroups", arXiv:2103.03301.
4. T. Banakh, S. Bardyla, A. Ravsky: "Embeddings into countably compact Hausdorff spaces", arXiv:1906.04541

PUBLICATIONS

1. S. Bardyla, L. Zdomskyy: "On regular separable countably compact \mathbb{R} -rigid spaces", Israel Journal of Mathematics (accepted), arXiv:2007.12171.
2. T. Banakh, S. Bardyla: "Characterizing categorically closed commutative semigroups", Journal of Algebra **591** (2022), 84–110.

3. S. Bardyla, A. Osipov: “On regular κ -bounded spaces admitting only constant continuous mappings into T_1 spaces of pseudo-character $\leq \kappa$ ”, *Act. Math. Hung.* **163** (2021), 323–333.
4. T. Banakh, S. Bardyla, O. Gutik: “The Lawson number of a semitopological semilattice”, *Semigroup Forum* **103** (2021), 24–37.
5. I. Banakh, T. Banakh, S. Bardyla: “A semigroup is finite if and only if it is chain-finite and antichain-finite”, *Axioms* **10**:1 (2021), 9.
6. T. Banakh, S. Bardyla: “Complete topologized posets and semilattices”, *Topology Proceedings* **57** (2021), 177–196.
7. S. Bardyla, A. Ravsky, L. Zdomskyy: “A countably compact topological group with the non-countably pracomact square”, *Topology Appl.* **279** (2020), 107251.
8. S. Bardyla: “On universal objects in the class of graph inverse semigroups”, *Eur. J. Math.* **6** (2020), p.4–13.
9. T. Banakh, S. Bardyla, A. Ravsky: “Embedding topological spaces into Hausdorff κ -bounded spaces”, *Topology Appl.* **280** (2020), 107277.
10. T. Banakh, S. Bardyla: “On images of complete topologized subsemilattices in sequential semitopological semilattices”, *Semigroup Forum* **100** (2020), 662–670.
11. S. Bardyla: “Embedding of graph inverse semigroups into CLP-compact topological semigroups”, *Topology Appl.*, **272** (2020), 107058.
12. T. Banakh, S. Bardyla, A. Ravsky: “A metrizable Lawson semitopological semilattice with non-closed partial order”, *Proc. Intern. Geom. Centr.*, **13**:3 (2020), 10–17.
13. T. Banakh, S. Bardyla, I. Guran, O. Gutik, A. Ravsky: “Positive answers to Koch’s problem in special cases”, *Topol. Algebra Appl.*, **8** (2020), 76–87.
14. S. Bardyla, A. Ravsky: “Closed subsets of compact-like topological spaces”, *Applied General Topology*, **21**:2 (2020), 201–214.
15. S. Bardyla, O. Gutik: “On the lattice of weak topologies on the bicyclic monoid with adjoined zero”, *Algebra Discr. Math.*, **30**:1 (2020), 26–43.
16. T. Banakh, S. Bardyla, A. Ravsky: “A metrizable semitopological semilattice with non-closed partial order”, *Topol. Algebra Appl.*, **8** (2020), 67–75.
17. S. Bardyla: “On locally compact topological graph inverse semigroups”, *Topology Appl.*, **267** (2019), 106873.
18. S. Bardyla: “An alternative look at the structure of graph inverse semigroups”, *Mat. Stud.* **51**:1 (2019), 3–11.
19. T. Banakh, S. Bardyla: “Characterizing chain-compact and chain-finite topological semilattices”, *Semigroup Forum*, **98** (2019), no.2, 234–250.
20. T. Banakh, S. Bardyla, A. Ravsky: “The closedness of complete subsemilattices in functionally Hausdorff semitopological semilattices”, *Topology Appl.* **267**, (2019), 106874.
21. T. Banakh, S. Bardyla: “Completeness and absolute H-closedness of topological semilattices”, *Topology Appl.* **260** (2019), 189–202.
22. T. Banakh, S. Bardyla: “The Interplay between weak topologies on topological semilattices”, *Topology Appl.* **259** (2019), 134–154.

23. S. Bardyla: “On locally compact shift-continuous topologies on the α -bicyclic monoid”, *Topol. Algebra Appl.* **6:1** (2018), 34–42.
24. S. Bardyla: “On locally compact semitopological graph inverse semigroups”, *Mat. Stud.* **49:1** (2018), 19–28.
25. S. Bardyla: “On a semitopological α -bicyclic monoid”, *Visn. L’viv. Univ., Ser. Mekh.-Mat.* **81** (2017), 9–22.
26. S. Bardyla, O. Gutik, O. Ravsky: “H-closed quasitopological groups”, *Topology Appl.* **217** (2017), 51–58.
27. S. Bardyla, O. Gutik: “On a complete topological inverse polycyclic monoid”, *Carp. Math. Publ.* **8:2** (2016) 183–194.
28. S. Bardyla: “Classifying locally compact semitopological polycyclic monoids”, *Math. Bull. Shevchenko Scient. Soc.* **13** (2016), 13–28.
29. S. Bardyla, O. Gutik: “On a semitopological polycyclic monoid”, *Algebra Discr. Math.* **21:2** (2016), 163–183.
30. S. Bardyla, O. Gutik: “On H-complete topological semilattices”, *Mat. Stud.* **38:2** (2012), 118–123.

COMMUNITY SERVICE

REFEREEING RESEARCH ARTICLES: European Journal of Mathematics,
 Monatshefte für Mathematik,
 Topology and its Applications,
 Ukrainian Mathematical Journal,
 Proceedings of the International Geometry Center.

REVIEWING RESEARCH ARTICLES Mathematical Reviews, zbMath.

LANGUAGES

UKRAINIAN: Mothertongue
 ENGLISH: Fluent
 RUSSIAN: Fluent
 GERMAN: B.1

MY PROFILES

[Google Scholar](#)
[Researchgate](#)

SCIENTIFIC INTERESTS

General Topology, Set Theory, Topological Algebra, Algebra, Pospaces.