

# Serhii BARDYLA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Lviv, Ukraine | 18 June 1992  
ADDRESS: Pfeilgasse 3A, 557, 1080, Vienna, Austria  
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## WORK EXPERIENCE

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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, 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

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Nov 2014–Sept 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.  
SEPT 1998–JUNE 2009 | Student of the school #45, Lviv, Ukraine.

## TALKS

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- 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.
- IX international algebraic conference of Ukraine, Lviv, 2013.  
Abstract: S. Bardyla, O. Gutik: “On H-complete topological semilattices”, p.20.
- Workshop, Hradec Kralove, Czech Republic, 2014.
- 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  $\lambda$ -polycyclic monoid”, p.134-135.

- X summer school "Algebra, Topology and Analysis", Odesa, 2015.  
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.67.
- The international conference "Geometry and topology in Odessa", Odesa, 2016.  
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.13.
- 7-th European Congress of Mathematics, Berlin, 2016.  
Abstract: S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", p.379.
- XI summer school "Algebra, Topology and Analysis", Odesa, 2016.  
Abstract: S. Bardyla, O. Gutik: "The embeddings and closures of a topological  $\lambda$ -polycyclic monoid", p.34.
- 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  $\lambda$ -polycyclic monoid", p.9.
- Winter School in Abstract Analysis (Set Theory and Topology), Hejnice, Czech Republic, 2017.  
Abstract: S. Bardyla: "On the semitopological locally compact  $\alpha$ -bicyclic monoid".
- International scientific conference «Algebraic and geometric methods of analysis», Odesa, 2017.  
Abstract: S. Bardyla: "On a semitopological  $\alpha$ -bicyclic semigroup", p.45.
- XII summer school "Algebra, Topology and Analysis", Kolochava, 2017.  
Abstract: S. Bardyla: "Topological graph inverse semigroups", p.58.
- 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.
- Winter School in Abstract Analysis (Analysis), Svatka, Czech Republic, 2018.  
Abstract: S. Bardyla: "On locally compact semitopological graph inverse semigroups".
- Winter School in Abstract Analysis (Set Theory and Topology), Hejnice, Czech Republic, 2018.  
Abstract: S. Bardyla: "On locally compact semitopological graph inverse semigroups".
- International scientific conference «Algebraic and geometric methods of analysis», Odesa, 2018.  
Abstract: S. Bardyla, H. Kvasnytsia: "Semitopological graph inverse semigroups", p.4.
- International scientific conference «Dynamical Methods in Algebra, Geometry and Topology», Udine, Italy, 2018.  
Abstract: T. Banakh, S. Bardyla: "On complete semitopological semilattices".
- The 13-th summer school "Analysis, Topology and Applications", Vyzhnytsya, 2018.  
Abstract: S. Bardyla: "Weak topologies on topologized semilattices", p.8.
- 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"

## PUBLICATIONS

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1. S. Bardyla, O. Gutik: "On H-complete topological semilattices", *Matematychni Studii*. 38 (2012), no.2. p. 118–123.
2. S. Bardyla, O. Gutik: "On a semitopological polycyclic monoid", *Algebra Discr. Math.* 21 (2016), no.2, 163–183.

3. S. Bardyla, O. Gutik: "On a complete topological inverse polycyclic monoid", *Carpathian Math. Publ.* 8 (2016) no.2. p. 183–194.
4. S. Bardyla: "Classifying locally compact semitopological polycyclic monoids", *Math. Bulletin of the Shevchenko Scientific Society.* 13 (2016), p. 13–28.
5. S. Bardyla, O. Gutik, O. Ravsky: "H-closed quasitopological groups", *Topology Appl.* 217 (2017), p. 51–58.
6. S. Bardyla: "On semitopological  $\alpha$ -bicyclic monoid", *Visn. L'viv. Univ., Ser. Mekh.-Mat.* 81 (2017), p. 9–22.
7. S. Bardyla: "On locally compact shift-continuous topologies on the  $\alpha$ -bicyclic monoid", *Topological Algebra and its Applications.* 6 (2018), no.1, p. 34–42.
8. T. Banakh, S. Bardyla: "Completeness and absolute H-closedness of topological semilattices", *Topology Appl.* (submitted), arXiv:1702.02791v1.
9. T. Banakh, S. Bardyla: "Characterizing chain-compact and chain-finite topological semilattices", *Semigroup Forum*, 98(2) (2019), p. 234–250, DOI:10.1007/s00233-018-9921-x.
10. S. Bardyla: "On a locally compact topological graph inverse semigroups", *Topology Appl.* (submitted), arXiv:1706.08594.
11. S. Bardyla: "On universal objects in the class of graph inverse semigroups", *European Journal of Mathematics.* (published online), DOI: 10.1007/s40879-018-0300-7.
12. S. Bardyla: "On a locally compact semitopological graph inverse semigroups", *Matematychni Studii.* 49 (2018), no.1, p. 19–28.
13. T. Banakh, S. Bardyla: "The Interplay between weak topologies on topological semilattices", *Topology Appl.* (published online), DOI: 10.1016/j.topol.2019.02.028.
14. T. Banakh, S. Bardyla, A. Ravsky: "The closedness of complete subsemilattices in functionally Hausdorff semitopological semilattices", preprint, arXiv:1806.02868.
15. T. Banakh, S. Bardyla: "On images of complete topologized subsemilattices in sequential semitopological semilattices", preprint, arXiv:1806.02864.
16. T. Banakh, S. Bardyla: "Complete topologized posets and semilattices", preprint, arXiv:1806.02869.
17. S. Bardyla: "An alternative look at the structure of graph inverse semigroups", preprint, arXiv:1806.09671.
18. S. Bardyla: "Embeddings of graph inverse semigroups into compact-like topological semigroups", preprint, arXiv:1810.09169.
19. T. Banakh, S. Bardyla, A. Ravsky: "A metrizable semitopological semilattice with non-closed partial order", preprint, arXiv:1902.08760.
20. T. Banakh, S. Bardyla, I. Guran, O. Gutik, A. Ravsky: "Positive answers to Koch's problem in special cases", preprint, arXiv:1902.08895.

## COMMUNITY SERVICE

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REFEREING RESEARCH ARTICLES: European Journal of Mathematics,  
Ukrainian Mathematical Journal.

REVIEWING RESEARCH ARTICLES: Mathematical Reviews, zbMath.

## LANGUAGES

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UKRAINIAN: Mothertongue  
ENGLISH: Fluent  
RUSSIAN: Fluent  
GERMAN: Basic Knowledge

## MY PROFILES

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

## SCIENTIFIC INTERESTS

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General topology, topological algebra, set theory, topological inverse semigroups, topological semilattices, topological groups, abstract algebra, pospaces.