

CURRICULUM VITAE

IHOR STASYUK

Address

Department of Computer Science and Mathematics
Nipissing University
100 College Drive, Box 5002
North Bay, Ontario, P1B 8L7, Canada

E-mail

ihors@nipissingu.ca

Phone

(705) 474-3450 ext. 4442

Website

<http://www.nipissingu.ca/about-us/people/Pages/Ihor-Stasyuk.aspx>
https://www.researchgate.net/profile/Ihor_Stasyuk

PERSONAL INFORMATION

- Date of birth: October 20, 1980
- Place of birth: Lviv, Ukraine

EDUCATION

- Ph.D. in Mathematics, Ivan Franko National University of Lviv, 2002–2007
Thesis: Extensions of metric structures
Advisor M. Zarichnyi
- M.Sc. in Mathematics and Statistics (with distinction)
Ivan Franko National University of Lviv, 1997–2002
Advisor M. Zarichnyi

RESEARCH INTERESTS

General topology, functional analysis, extension of maps, continuum theory, special metrics, continuous selections, hyperspace theory, Hausdorff measures.

AWARDS

- Postdoctoral fellowship with the Department of Mathematics and Statistics at the University of Saskatchewan (2007–2008)
- Ontario MRI Postdoctoral fellowship at Nipissing University for advanced study and research in Mathematics (2010–2012)

PUBLICATIONS and PREPRINTS

- T. Banakh, I. Stasyuk, E.D. Tymchatyn, M. Zarichnyi, Extension of metrics: A survey of results (intended book: in preparation).
- I.Stasyuk, M. Tuncali, E.D. Tymchatyn, *Convex metrics on partitionable spaces* (in preparation).
- I. Stasyuk, M. Tuncali, E.D. Tymchatyn, *Spaces of finite Hausdorff measure* (in preparation).
- J. Nikiel, I. Stasyuk, M. Tuncali, E.D. Tymchatyn, *Convex metrics on non-compact spaces*, submitted to Fund. Math.
- T. Banakh, I. Stasyuk, E.D. Tymchatyn, M. Zarichnyi, *Extension of functions and metrics with variable domains*, Topology Appl., **231C** (2017), 353–372.
- I.Stasyuk, E.D. Tymchatyn, *Simultaneous brick partitionings of Peano continua*, preprint (2016).

- I. Stasyuk, E.D. Tymchatyn, *Spaces of σ -finite linear measure*, Colloq. Math., **133** (2013), 245–252.
- I. Stasyuk, E.D. Tymchatyn, *On continuous linear operators extending metrics*, Proc. Amer. Math. Soc., **141** (2013), 2913–2921.
- I. Stasyuk, E.D. Tymchatyn, *A note on uniformly continuous selections for multi-valued maps*, Topology Proc., **39** (2012), 41–44.
- I. Stasyuk, E.D. Tymchatyn, *A continuous operator extending fuzzy ultrametrics*, Comment. Math. Univ. Carolin., **52**, no. 4 (2011), 611–622.
- I. Stasyuk, E.D. Tymchatyn, *Extending pairs of metrics*, Mat. Stud., **35**, no. 2 (2011), 215–224.
- I. Stasyuk, E.D. Tymchatyn, *A continuous extension operator for convex metrics*, Canad. Math. Bull., **53** (2010), 719–729.
- A. Koyama, I. Stasyuk, E.D. Tymchatyn, A. Zagorodnyuk, *Continuous linear extension of functions*, Proc. Amer. Math. Soc., **38** (2010), 4149–4155.
- T. Banakh, N. Brodskiy, I. Stasyuk, E.D. Tymchatyn, *On continuous extension of uniformly continuous functions and metrics*, Colloq. Math., **116** (2009), 191–202.
- I. Stasyuk, E.D. Tymchatyn, *A continuous operator extending ultrametrics*, Comment. Math. Univ. Carolin., **50**, no.1 (2009), 141–151.
- I. Stasyuk, *Extensions of Metric Structures*, Ph.D. Thesis, 2007.
- I. Stasyuk, *Operators extending pseudometrics defined on convex bodies in Euclidean space*, Visnyk of Chernivtsi University, Math., **314–315** (2006), 173–180 (Ukrainian).
- I. Stasyuk, *On operators extending uniformly disconnected metrics*, Mat. Stud., **26**, no.1 (2006), 101–104.
- I. Stasyuk, *On operators simultaneously extending partial ultrametrics*, Math. Methods and Phys.–Mech. Fields, **49**, no.2 (2006), 27–32 (Ukrainian).
- I. Stasyuk, *Operators extending partial ultrametrics continuous in the topology of pointwise convergence*, Visnyk of Lviv University, Series Mech. and Math., **64** (2005), 273–279 (Ukrainian).
- I. Stasyuk, *Extension of semicontinuous pseudometrics*, App. Problems of Mech. and Math., **2** (2004), 88–95 (Ukrainian).
- I. Stasyuk, *On a homogeneous operator extending partial ultrametrics*, Mat. Stud., **22**, no.1 (2004), 73–78.

CONFERENCE TALKS

- I. Stasyuk (with E.D. Tymchatyn), *Convex metrics on non-compact spaces*, Spring Topology and Dynamical Systems Conference, Jersey City, NJ, USA, 2017.
- I. Stasyuk (with E.D. Tymchatyn), *Simultaneous brick partitionings of Peano continua*, Spring Topology and Dynamical Systems Conference, Waco, TX, USA, 2016.
- I. Stasyuk (with E.D. Tymchatyn), *Extensions of convex metrics*, Spring Topology and Dynamical Systems Conference, Bowling Green, OH, USA, 2015.
- I. Stasyuk (with E.D. Tymchatyn), *Uniformly continuous selections for multi-valued maps*, Spring Topology and Dynamical Systems Conference, Richmond, VA, USA, 2014.
- I. Stasyuk (with J. Nikiel, M. Tuncali and E.D. Tymchatyn), *Convex metrics on non-compact spaces*, Spring Topology and Dynamical Systems Conference, New Britain, CT, USA, 2013.
- I. Stasyuk (with T. Banakh, N. Brodskiy and E.D. Tymchatyn), *Extensions of uniformly continuous and Lipschitz functions and metrics*, Spring Topology and Dynamical Systems Conference, Mexico City, Mexico, 2012.

- I. Stasyuk (with M. Tuncali and E.D. Tymchatyn), *Spaces of finite Hausdorff measure*, Dubrovnik VII, Geometric Topology Conference, Dubrovnik, Croatia, 2011.
- I. Stasyuk (with E.D. Tymchatyn), *A continuous operator extending fuzzy ultrametrics*, Spring Topology and Dynamical Systems Conference, Tyler, TX, USA, 2011.
- I. Stasyuk (with E.D. Tymchatyn), *On continuous linear operators extending metrics*, Spring Topology and Dynamical Systems Conference, Starkville, MI, USA, 2010.
- I. Stasyuk (with E.D. Tymchatyn), *Uniformly continuous selections for multi-valued maps*, Spring Topology and Dynamical Systems Conference, Gainesville, FL, USA, 2009.
- I. Stasyuk, *Extension of uniformly disconnected metrics and ultrametrics*, Spring Topology and Dynamical Systems Conference, Milwaukee, WI, USA, 2008.
- I. Stasyuk, *Simultaneous extension of partial ultrametrics*, International Conference “Analysis and Related Topics”, Lviv, Ukraine, 2005, Book of abstracts, 102.
- I. Stasyuk, *Extending partial pseudometrics in the Euclidean space*, Conference devoted to modern problems of Mathematics and Mechanics, Lviv, Ukraine, 2005, Book of abstracts, 252.
- I. Stasyuk, *Extending partial ultrametrics*, Conference devoted to modern problems of Mathematics and Mechanics, Lviv, Ukraine, 2004, Book of abstracts, 186-188.
- I. Stasyuk, *Extending pseudometrics defined on closed convex subsets of \mathbb{R}^n* , International Conference “Geometric Topology, Infinite-Dimensional Topology, Absolute Extensors, Applications”, Lviv, Ukraine, 2004, Book of abstracts, 75–76.

TEACHING EXPERIENCE

- **Nipissing University**, Assistant Professor
July 2013–present

Courses taught:

- MATH 1257, Technical Statistics (Summer 2015 online, Fall 2015, 2016, 2017, Winter 2016, 2017)
- MATH 2036, Advanced Calculus I (Fall 2017)
- MATH 2046, Advanced Linear Algebra (Winter 2015)
- MATH 2056, Discrete Mathematics II (Fall 2014, 2016)
- MATH 2076, Probability and Statistics I (Winter 2017)
- MATH 2306, History of Mathematics (Winter 2014)
- MATH 2386, Problem Solving (Fall 2013, 2014, 2015)
- MATH 3126, Number Theory (Winter 2014, 2016)
- MATH 3127, Graph Theory and Combinatorics (Fall 2013)
- MATH 3137, Real Analysis II (Winter 2015, 2017)
- MATH 3146, Complex Analysis I (Fall 2014)
- MATH 3266, Differential Equations I (Winter 2014, 2016)
- MATH 3397, Selected Topics II (Fall 2013)
- MATH 4036, Measure Theory (Fall 2015)
- MATH 4086, Functional Analysis (Winter 2015)
- MATH 5086, Functional Analysis (graduate) (Winter 2015)

Student undergraduate projects supervised

“Spherical Geometry” by Christopher Simmonds (Winter 2014)

“Metric Spaces” by Connor Mulvale (Winter 2014)

“Exploring the Theory of Special Relativity” by Meghan Best (Winter 2014)

“Projective Geometry” by Christopher Simmonds (Fall 2014)

“Curves” by Connor Mulvale (Fall 2014)

“An Introduction to Topology” by Meghan Best (Fall 2014)

- **Nipissing University**, Postdoctoral Fellow

April 2010–June 2013

Courses taught:

- MATH 2056, Discrete Mathematics II (Fall 2011, 2012)
- MATH 2116, Geometry (Fall 2010)
- MATH 3136, Real Analysis I (Winter 2012)
- MATH 3137, Real Analysis II (Winter 2013)
- MATH 3146, Complex Analysis I (Fall 2012)
- MATH 3166, Topology (Winter 2011)
- MATH 3396, Selected Topics I (Winter 2013)

Student undergraduate projects supervised

“Properties of Metric Spaces” by Michelle Navgiri (Winter 2013)

“Uniform Convergence Topology” by Michelle Navgiri (Fall 2012)

“Projective Geometry” by Shawna Kunkel (Winter 2012)

“Differential Equations: Models and Applications” by Jennifer Black (Fall 2011)

“Spherical Geometry” by Shawna Kunkel (Fall 2011)

“A Generalization of the Banach Contraction Mapping Principle” by Shawn Pedersen (Winter 2011)

“Two-Person Zero-Sum Games” by Shawn Pedersen (Fall 2010)

- **University of Saskatchewan**, Research Assistant and Sessional Lecturer

September 2008–April 2010

Courses taught:

- MATH 110, Calculus I (Fall 2008, Winter 2009, Summer 2009, Winter 2010)
- MATH 116, Calculus II (Winter 2010)
- MATH 258, Euclidean Geometry (Winter 2009, 2010, Summer 2009, Fall 2009)

- **University of Saskatchewan**, Postdoctoral Fellow

September 2007–August 2008

Courses taught:

- MATH 110, Calculus I (Winter 2008, Summer 2008)

- **Ivan Franko National University of Lviv**, Assistant Professor

September 2005–August 2007

Courses taught:

- Analytic Geometry (Fall 2005, Fall 2006)
- Algebra and Geometry (Winter 2005, Winter 2006)
- Topology (Fall 2005, Fall 2006)
- Differential Geometry (Winter 2007)
- Mathematics for Economists (Winter 2006, Winter 2007)
- Metric Spaces (Winter 2007)

PROFESSIONAL ACTIVITIES AND SKILLS

• Co-organizer of

- The 14th Annual Workshop “Topology and Dynamical Systems”, May 15-19, 2017, Nipissing University
- The 13th Annual Workshop “Topology and Dynamical Systems”, May 16-20, 2016, Nipissing University
- The 12th Annual Workshop “Topology and Dynamical Systems”, May 25-29, 2015, Nipissing University
- The 11th Annual Workshop “Continuum Theory, Dynamical Systems, Large Scale and Geometric Topology”, May 26-30, 2014, Nipissing University
- The 28th Summer Conference on Topology and Its Applications, July 23-26, 2013, Nipissing University
- The 10th Annual Workshop “Recent Advances in General Topology, Dimension Theory, Continuum Theory and Dynamical Systems”, May 14-18, 2012, Nipissing University
- The 9th Annual Workshop “Topology, Analysis and Math Education”, May 16-20, 2011, Nipissing University
- Conference “Geometric Topology, Infinite-Dimensional Topology, Absolute Extensors, Applications”, May 26-29, 2004, Ivan Franko National University of Lviv, Ukraine
- Math Circles, Nipissing University (2013-present).

• Referee

- Proceedings of the American Mathematical Society
- Topology Proceedings
- Topology and its Applications
- Tsukuba Journal of Mathematics
- Mathematika
- Missouri Journal of Mathematical Sciences

• Reviewer: Mathematical Reviews

• Participation in seminars

- Topology seminar, Nipissing University (2010–present)
- Mathematical colloquia, University of Saskatchewan (2007–2010)
- Topology seminar, Ivan Franko National University of Lviv (2001–2007)

• Popular talks

Presentations for high school students, Nipissing University (2015, 2016)

• Curriculum development

Revision of the course MATH 1257, Technical Statistics, Nipissing University (2015)

- **Computer skills**

- LaTeX
- HTML
- MS Office
- Wolfram Mathematica
- Statdisk
- Blackboard
- Maple

- **Languages**

- English (speaking, listening, writing, reading fluently)
- Ukrainian (mother tongue)
- Russian (speaking, listening, writing, reading fluently)