

CURRICULUM VITAE

Ievgen (Eugene) Bilokopytov

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Personal Data:

Date / place of birth: Sep 15, 1990, Kiev, Ukraine

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Languages: English; Ukrainian; Russian (native).

Research Interests:

Applications of general topology, abstract functional analysis and various branches of geometry to the study of the Banach Spaces of Continuous and Holomorphic Functions.

Employment:

2020-present – Post-doc at the University of Alberta, Canada.

2020, Winter – Post-doc at the University of Manitoba, Canada.

2019 – Sessional instructor at the University of Manitoba, Canada.

Education:

2019, February – Ph.D. Mathematics, University of Manitoba, Canada.

Thesis advisor - N. Zorboska. Thesis title - “Normed Spaces of Continuous and Holomorphic Functions and Weighted Composition Operators”.

2013, October – M.Sc. Mathematics, University of Manitoba, Canada.

Thesis advisor - N. Zorboska. Thesis title - “Different aspects of embedding of normed spaces of analytic functions”.

2011, June – B.Sc. Mathematics, Kiev National University, Ukraine.

Thesis advisor - S. Kolyada. Thesis title - “Transitive maps on topological spaces”.

Publications:

1. *Disjointly non-singular operators on order continuous Banach lattices complement the unbounded norm topology*, to appear in J. Math. Anal. Appl. (2021), arXiv:2101.06566.

2. *Multiplier algebras of normed spaces of continuous functions*, to appear in Mediterranean Journal of Mathematics (2020), arXiv:2008.03700.

3. *Maximum Modulus Principle For Multipliers and Mean Ergodic Multiplication Operators*, to appear in the Journal of Operator Theory (2020), arXiv:2007.11685.
4. *Which multiplication operators are surjective isometries?*, J. Math. Anal. Appl. **580** (2019), 123368, arXiv:1901.00310.
5. *Continuity and Holomorphicity of Symbols of Weighted Composition Operators*, Complex Anal. Oper. Theory **13** (2019), no. **3**, 1441-1464, available online.
6. *Principal Minor Assignment, Isometries of Hilbert Spaces, Volumes of Parallelepipeds and Rescaling of Sesqui-holomorphic Functions*, Linear Algebra Appl. **580** (2019), 37-61, arXiv:1808.04072.
7. *Isometry invariant Finsler metrics on Hilbert Spaces*, Archivum Mathematicum **53** (2017), no. **3**, 141-153, available online.
8. *Transitive maps on topological spaces* (with Kolyada, S. F.), Ukrainian Math. J. **65** (2014), no. **9**, 1293-1318, available online.
9. *Invariant Hermitean Metric Generated By Reproducing Kernel Hilbert Spaces*, preprint (2018), arXiv:1711.05211.
10. *Order continuity and regularity on vector lattices and on lattices of continuous functions*, preprint (2021), arXiv:2103.08776.
11. *Vector lattice approach to the Riesz and Stone Representation theorems*, preprint (2021), arXiv:2104.01576.
12. *Non-Euclidean Universal Approximation* (with Anastasis Kratsios), NeurIPS - Conference on Neural Information Processing Systems 2020 (**paper on Machine Learning**), available online.

Conference and Seminar Talks:

- 2019, December – CMS Winter Meeting, Toronto, ON, Canada.
- 2019, October – Northeastern Analysis Meeting, Syracuse, NY, USA.
- 2019, June – CMS Summer Meeting, Regina, SK, Canada.
- 2019, May – Combinatorics Seminar in University of Manitoba, Winnipeg, MB, Canada.
- 2019, April – AMS Spring Central Sectional Meeting, Hartford, CT, USA.
- 2019, March – Functional Analysis Seminar in University of Alberta, Edmonton, AB, Canada.
- 2018, December – CMS Winter Meeting, Vancouver, BC, Canada.
- 2018, June – Canadian Operator Symposium, Winnipeg, MB, Canada.
- 2017, October – Northeastern Analysis Meeting, Albany, NY, USA.
- 2016, June – PIMS Young Researchers Conference in Mathematics and Statistics, Edmonton, AB, Canada.
- 2014, May – Colloquium Talk, University of Manitoba, Winnipeg, MB, Canada.
- 2013-2017 – Multiple talks on Analysis Seminar in University of Manitoba, Winnipeg, MB, Canada.
- 2013-2018 – Multiple talks on Geometry and Topology learning Seminar in University of Manitoba, Winnipeg, MB, Canada.
- 2011-2014 – Multiple talks on Graduate Seminar in University of Manitoba, Winnipeg, MB, Canada.

Conference and Seminar Attendance:

2019, November – Interpolation in Spaces of Analytic Functions, Marseille, France.
2018, January – Joint Mathematics Meetings, San-Diego, CA, USA.
2017, December – CMS Winter Meeting, Waterloo, ON, Canada.
2016, April – AMS Spring Central Sectional Meeting, Fargo, ND, USA.
2015, December – CMS Winter Meeting, Montreal, QC, Canada.
2014, July – IWOTA-2014, Amsterdam, Netherlands.
2014, June – CMS Summer Meeting, Winnipeg, MB, Canada.
2014, January – Winter School on Abstract Harmonic Analysis, Banach and Operator Algebras, Fields Institute, Toronto, ON, Canada.

Awards:

2017, 2018 - University of Manitoba FGS Travel Award.
2013-2017 - Manitoba Graduate Scholarship.
2013-2014 - Dr. Narain D. Gupta Scholarship in Mathematics.
2011-2013 - University of Manitoba Graduate Fellowship.
2007-2008 - President of Ukraine Scholarship.
2006-2011 - Multiple awards on Ukrainian National Olympiad for high-school and university students.

Teaching:

2021, Spring – MATH 215 “Intermediate Calculus II”, 43 students (lecturer and course organizer).
2020, Winter – MATH 2720 “Multivariable Calculus”, 73 students (lecturer and course organizer).
2019, Fall – MATH 1500 “Introduction to Calculus”, two sections, 151 and 100 students (lecturer).
2019, Summer – MATH 1700 “Calculus 2”, 120 students (lecturer and course organizer).
2016, Winter – MATH 1300 “Vector Geometry and Linear Algebra”, 136 students (lecturer).
2015, Summer – MATH 2720 “Multivariable Calculus”, 41 students (lecturer and course organizer).
2015, Spring – Completed a teaching training workshop in University of Manitoba.
2011-2019 – Teaching assistant in several versions of Calculus, Linear Algebra, Discrete Mathematics, as well as Linear Algebra 2, Introduction to Analysis and Curves and Surfaces.
2008-2013 – Extra-curriculum work with talented high-school students in preparation for mathematical contests of various levels, including International Mathematical Olympiad. Member of jury of Kiev Olympiad and Ukrainian Mathematical Fights for high-school students.