

CURRICULUM VITAE
VOLODYMYR V. NEKRASHEVYCH

Official address:

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Current position: Professor at Texas A&M University.

Research interests:

Group theory (groups generated by finite automata, self-similar and branch groups; hyperbolic groups); Dynamical systems (hyperbolic dynamics; holomorphic dynamics; groups, inverse semigroups and groupoids acting on the Cantor set); Operator algebras (algebras associated to self-similar group actions, hyperbolic dynamical systems and tilings).

Education and degrees:

2006 Habilitation (Doctor of Sciences) defended in Kyiv Taras Shevchenko University. Thesis title: “*Self-similar groups*”;

1998 Ph.D. defended in Kyiv Taras Shevchenko University. Thesis title: “*Metric properties of non-amenable groups*”. Supervisor: Prof. Vitaliy I. Sushchansky;

1997 M.S. in Mathematics (with honors), Kyiv Taras Shevchenko University.

Professional career:

from 2009 Professor at Texas A&M University;

2005–2009 Associate Professor at Texas A&M University;

2003–2005 Visiting Assistant Professor at International University Bremen (Germany);

1997–2005 Assistant Professor, Kyiv National Taras Shevchenko University, Mechanics and Mathematic faculty (Ukraine).

Research visits:

2012, March — Institut Mittag-Leffler (Sweden);

2012, January — RIMS, Kyoto (Japan);

2011, July — Göttingen University (Germany);

2010, March — Geneva University (Switzerland);

2008, May — Brasília University (Brazil);

2007, July — Erwin Schrödinger Institute, Vienna (Austria).

2007, Mai — Isaac Newton Institute for Mathematical Sciences, Cambridge, (UK);

2005, Mai — Uppsala University (Sweden);

2004, June — Ecole Polytechnique Federale Lausanne and Geneva University (Switzerland);
2003, June — Geneva University (Switzerland);
2002, July — Università degli Studi di Roma - La Sapienza, (Italy);
2002, (Humboldt fellowship, 1 year) — Düsseldorf Heinrich Heine University;
2001, June — ETH Zürich (Switzerland);
2001, May–June — Geneva University (Switzerland);
2001, March — Royal Technical Institute in Stockholm (Sweden);
2000, August — Brasília University (Brazil);
2000, May — Geneva University (Switzerland);
1999, June–July — Wrocław University (Poland);
1999, May — Geneva University (Switzerland);
1999, February — Brasília University (Brazil);
1998, May — Wrocław University (Poland).

Grants and Awards:

2010 — “Iterated monodromy groups” NSF grant DMS-1006280, July 15, 2010 — July 14, 2013;
2007 — “Groups generated by automata”, NSF conference travel grant DMS-0757988, February 1, 2008 – January 31, 2009;
2006 — “Iterated Monodromy Groups”, NSF grant DMS-0605019, September 1, 2006 – August 31, 2009;
2001 — Alexander von Humboldt fellowship;
2000 — award of Kyiv Taras Shevchenko University for young scientists;
1999 — Kasa Mianowskiego grant (Poland);
1998 — award of Petryshyn foundation for young mathematicians;
1998 — International Soros Science Foundation grant for high school teachers;
1997 — award of Ukrainian National Academy of Sciences for university students for the work “*Equivalence of nets in nonamenable groups*”.
1995, 1997 — International Soros Science Foundation grant for university students.

Organized conferences:

2008 — Co-organizer of “Groups Generated by Automata”, Ascona, Switzerland;
2008 — Co-organizer of special session “Group Theory” at Joint AMS International Meeting Rio de Janeiro, Brazil.

Participated conferences:

- 2012 — “Topological and algebraic regularity properties of nuclear C^* -algebras”, Lafayette, Louisiana.
- 2012 — “Geometric and Analytic Aspects of Group Theory”, Institut Mittag-Leffler, Stockholm, Sweden.
- 2012 — “Complex Dynamics Conference of Academic Year 2011–2012” (invited talk) RIMS, Kyoto, Japan.
- 2011 — West Coast Operator Algebra Seminar, (invited talk) Albuquerque, NM.
- 2011 — Fall Eastern Sectional Meeting, Special Session on Analysis, Probability, and Mathematical Physics on Fractals, Ithaca, NY.
- 2011 — Göttingen-Penn State International Summer School on Dynamical Systems, Göttingen, Germany.
- 2011 — “Trends in Complex Dynamics”, (invited talk) Clay Mathematics Institute.
- 2011 — Conference on Algebra and Applications. In honor of Said Sidki on the occasion of his 70th birthday (invited talk), Caldas Novas, Brazil.
- 2011 — “45th Spring Topology and Dynamics Conference”, Tyler, Texas.
- 2011 — “Frontiers in Complex Dynamics (Celebrating John Milnor’s 80th birthday)”, Banff, Canada.
- 2010 — First Joint Meeting, American Mathematical Society and Sociedad de Matematica de Chile, Special Session on Group Actions: Probability and Dynamics, Pucon, Chile.
- 2010 — “Group Actions and Dynamics” (invited series of 3 lectures), CRM, Montreal, Canada.
- 2010 — Fall Eastern Sectional Meeting, Special Session on Analysis, Probability and Mathematical Physics on Fractals, Syracuse, NY.
- 2010 — “Groups and Group Actions in Operator Algebra Theory” (invited talk), Ottawa, Canada.
- 2010 — “Geometry, Topology and Computation in Groups” Les Diablerets, Switzerland.
- 2009 — The 5th William Rowan Hamilton Geometry and Topology Workshop, Dublin, Ireland.
- 2009 — “El Tercer Congreso Latino Americano de Matemáticos” Santiago de Chile.
- 2009 — “Groups St Andrews 2009 in Bath” (invited series of four lectures), Bath, England.
- 2009 — “Workshop on Fractals and Tilings”, Strobl, Austria.
- 2009 — “Boundary” Graz, Austria.
- 2009 — “Advances in Low Dimensional Dynamics”, Stony Brook, NY.
- 2009 — “Geometric and Combinatorial Methods in Group Theory and Semigroup Theory”, Lincoln, NE.
- 2009 — Special Session on Geometric Group Theory, 2009 Spring Central Sectional Meeting of AMS, Urbana, IL.
- 2008 — “Self-Similarity and Branching in Group Theory”, Banff, Canada.
- 2008 — “Profinite and asymptotic group theory”, Oberwolfach meeting, Oberwolfach, Germany.
- 2008 — “3rd Conference on Analysis and Probability on Fractals”, Cornell University, Ithaca, NY.
- 2008 — AMS Joint International Meeting Rio de Janeiro, Brazil.

- 2008 — “Discrete Structures in Conformal Geometry and Dynamics”, Spring Central Section AMS Meeting, Bloomington, IN.
- 2008 — “Groups and Dynamics” (invited talk), IIIème Cycle Romand de Mathématiques Spring School at Les Diablerets, Switzerland.
- 2008 — “Groups generated by Automata”, Ascona, Switzerland.
- 2007 — “Topics in Geometric Group Theory” (invited talk), MSRI, Berkeley, CA.
- 2007 — “Dichotomy Amenable/Nonamenable in Combinatorial Group Theory” (invited talk), Palo Alto, CA.
- 2007 — “A celebration of group theory” (invited talk) New York.
- 2007 — “Groups and their actions” (invited talk), Bedlewo, Poland.
- 2007 — “Analysis on Graphs and Fractals” (invited talk), Cardiff, UK.
- 2007 — “Analysis on Graphs and its Applications”, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
- 2007 — “Special Session on Operator Algebras” AMS Western Section Meeting Tucson, AZ.
- 2007 — “Groupes 2007. Hyperbolicity and convergence groups” (invited talk) February Luminy, France.
- 2006 — “Special Session on Complexity and Computability in Analysis, Geometry, and Dynamics” CMS Winter 2006 Meeting, Toronto, Canada.
- 2006 — “Analysis and Probability on Fractals” AMS Eastern Section Meeting, University of Connecticut.
- 2006 — “Selfsimilar groups and conformal dynamics” (invited talks), American Institute of Mathematics, Palo Alto, California.
- 2006 — “Combinatorial and geometric group theory” (invited talk), Vanderbilt University, Nashville, TN.
- 2006 — “Asymptotic Methods in Groups and Algebras”, (an invited series of three talks), Sao Paulo, Brasil.
- 2006 — “ G^3 conference — Geometric Group Theory on the Gulf Coast Conference”, (invited talk), Mobile, Alabama.
- 2006 — Holomorphic dynamics workshop. In celebration of John Milnor’s 75th birthday, (invited talk), Toronto, Canada.
- 2005 — “Algebra and Discrete Mathematics”, (invited talk), Kiev, Ukraine.
- 2005 — “Geometric and Probabilistic Methods in Group Theory and Dynamical Systems”, (plenary talk), College Station, Texas.
- 2005 — “5th International Algebraic Conference in Ukraine”, (plenary talk), Odessa, Ukraine.
- 2005 — “*Groups and Group Rings XI*”, (invited talk), Bedlewo, Poland.
- 2004 — “*Groups acting on rooted trees and $CAT(0)$ spaces*”, (invited talk), Orsay, France.
- 2004 — “*Geometric Group Theory, Random Walks and Harmonic Analysis*”, Cortona, Italy.
- 2004 — “*Analysis and Geometry on Random Structures*”, Lille, France.
- 2003 — IV International Algebraic conference in Ukraine, (invited talk), Lviv, Ukraine.

- 2003 — International Conference “*GROUP THEORY: combinatorial, geometric, and dynamical aspects of infinite groups*”, (plenary talk), Gaeta, Italy.
- 2003 — Oberwolfach meeting “*Profinite Groups and Discrete Subgroups of Lie Groups*” Germany.
- 2002 — Conference on Harmonic analysis, (invited talk), Luxembourg and Metz, France.
- 2002 — International Conference on Semigroups and Groups in Honor of the 65th Birthday of John Rhodes, Porto, Portugal.
- 2002 — Workshop “*Discrete groups and geometric structures with applications*”, Crystallographic groups and their generalizations III, Kortrijk, Belgium.
- 2001 — International Conference on Functional Analysis, Kyiv, Ukraine.
- 2001 — Third International Algebraic Conference in Ukraine, (invited talk), Sumy, Ukraine.
- 2001 — “*Random walks and geometry*”, workshop, Vienna, Austria.
- 2000 — Russian-Swedish conference “*Combinatorics, Dynamics, Probability*” Stockholm, Sweden.
- 2000 — “*Ergodic theory and dynamical systems*”, Katsyveli, Ukraine.
- 2000 — XVI Escola de Algebra, Brasilia, Brazil.
- 1999 – Symposium on Computation in Group Theory and Geometry, (invited talk), Warwick University, England.
- 1999 — VII International Conference “*Groups and Group Rings*”, (invited talk), Bialystok, Poland.
- 1998 — International Conference in Memory of Pontryagin, Moscow, Russia.
- 1998 — VI International Conference “*Groups and Group Rings*”, Wisła, Poland.
- 1997 — International Conference in Algebra in Memory of Gluskin, (plenary talk), Slovjansk, Ukraine.
- 1996 — IV International Conference “*Groups and Group Rings*”, Lubin Velykyj, Ukraine.
- 1996 — International Conference in memory of Kravchuk, Kyiv, Ukraine.

Seminar and Colloquium talks:

Kyiv Taras Shevchenko University;
 Mathematical Institute of Ukrainian Academy of Sciences;
 Wrocław University (Poland);
 Geneva University (Switzerland);
 Brasilia University (Brasil);
 Royal Technical Institute in Stockholm (Sweden);
 Düsseldorf Heinrich Heine University (Germany);
 Università degli Studi di Roma (Italy);
 Université des Sciences et Technologies de Lille I (France);
 International University Bremen (Germany);
 ETH Zürich (Switzerland);
 Texas A&M University (USA);
 SUNY Stony Brook (USA);
 Uppsala University (Sweden);
 Vanderbilt University (Nashville, USA);
 Rice University (Houston, USA);
 Colloquium of Kyiv Mathematical Society (Kyiv, Ukraine);
 Göttingen University (Göttingen, Germany);
 University Illinois Chicago;

Indiana University, Bloomington;
RIMS, Kyoto (Japan);
Kyoto University (Japan);
Kyushu University (Fukuoka, Japan);
Mittag Leffler seminar (Stockholm, Sweden);
Colloquium of Uppsala University (Sweden).

Teaching at Summer Schools:

- 2010 — “*Self-similar and branch groups*” a minicourse of 3 lectures at “Group actions and dynamics”, CRM, Montreal, Canada;
- 2009 — “*Iterated monodromy groups*” a minicourse of 4 lectures at “Groups St Andrews 2009 in Bath”, Bath, England;
- 2007 — “*Contracting groups*” a minicourse of 5 lectures at “Amenability”, a semester at Erwin Schroedinger Institute, Vienna, Austria;
- 2006 — “*Holomorphic Dynamics and Group Theory*” a cycle of 3 lectures at IV-th Summer School “Algebra, Topology, Functional and Stochastic Analysis” (Kozyova, Ukraine);
- 2004 — “*Automata groups and holomorphic dynamics*” a cycle of 4 lectures at “Advanced Course on Automata Groups” (Barcelona, Spain);
- 2004 — “*Self-similar groups*” a cycle of 5 lectures at “Autour de groupes agissant sur des arbres 3ème cycle romand ` Villars” (Villars, Switzerland).