

# YAROSLAV V. LAVRENYUK (Lavreniuk)

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## Current position:

Senior researcher.

## Research interests:

Group theory (groups generated by finite automata, weakly branch groups, self-similar groups; locally finite groups); Dynamical systems (symbolic dynamics; groups and groupoids acting on the Cantor set); Operator algebras (algebras associated to group actions);

## Education and degrees:

2009 Habilitation (Doctor of Sciences) defended in Kyiv Taras Shevchenko University. Thesis title: "Homeomorphism groups of Cantor spaces". Scientific adviser: Prof. Vitaliy I. Sushchansky.

2000 Ph.D. (C.Sc.) defended in Kyiv Taras Shevchenko University. Thesis title: "Level transitive automorphism groups of rooted trees". Supervisor: Prof. Vitaliy I. Sushchansky.

1997–2000 post-graduate student, Kyiv Taras Shevchenko University, Mechanics and Mathematics faculty, Algebra department.

1997 M.S. in Mathematics (with honors).

1992–1997 student, Kyiv Taras Shevchenko University, Mechanics and Mathematics faculty (1994 - 1997: Algebra department).

## Professional career:

from 2008 Senior researcher, Kyiv National Taras Shevchenko University, Mechanics and Mathematic faculty (Ukraine).

2006–2009 Deputy dean (on research) of Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University (Ukraine).

2004–2008 Researcher (research fellow), Kyiv National Taras Shevchenko University, Mechanics and Mathematic faculty (Ukraine).

2001–2004 Junior researcher (junior research fellow), Kyiv National Taras Shevchenko University, Mechanics and Mathematic faculty (Ukraine).

## Research visits:

2008, March–April — Texas A&M University (USA).

2007, June — Ljubljana University (Slovenia).

2006, September–October — Texas A&M University (USA).

2004, April–May — Uppsala University (Sweden).

**Grants and Awards:**

2009 — winner of mathematics competition for young mathematicians in Ukraine in 2009  
(<http://shevchenko.org/MatPhysTech/competition.htm>).

**Participated conferences:**

2009 – "Humboldt Cosmos: Science and Society ( $H_C S^2$  – Kiev 2009)", (Kyiv, Ukraine), sectional talk.

2008 – "5th Linear Algebra Workshop" (Kranjska Gora, Slovenia), sectional talk.

2008 – "Groups generated by automata" (Ascona, Switzerland), plenary talk.

2007 – "6th International Algebraic Conference in Ukraine" (Kamyanets-Podilsky, Ukraine), plenary talk.

2007 – "Classes of groups, algebras and their applications" (Gomel, Belarus), plenary talk.

2006 — Algebraic workshop in celebration of Prof. V.I.Sushchansky's 60th birthday, (Kyiv, Ukraine), plenary talk.

2005 — "5th International Algebraic Conference in Ukraine", (Odessa, Ukraine), sectional talk.

2003 — X International Conference "Groups and Group Rings", (Ustron, Poland), short talk.

2003 — International Conference "GROUP THEORY: combinatorial, geometric, and dynamical aspects of infinite groups", (Gaeta, Italy).

2002 — International Conference in memory of Kaluzhnin, (Kyiv, Ukraine).

2002 — International Conference in memory of Grave, (Kyiv, Ukraine).

2001 — Third International Algebraic Conference in Ukraine, (Sumy, Ukraine).

1999 — International Algebraic Conference, (Vinnytsya, Ukraine).

1999 — VII International Conference "Groups and Group Rings", (Bialystok, Poland), short talk.

1997 — International Conference in Algebra in Memory of Gluskin, (Slovjansk, Ukraine).

1996 — International Conference in memory of Kravchuk, (Kyiv, Ukraine).

1996 — IV International Conference "Groups and Group Rings", (Lubin Velykyj, Ukraine).

**Seminar and Colloquium talks:**

Kyiv Taras Shevchenko University

Mathematical Institute of Ukrainian Academy of Sciences

Texas A&M University (USA, 2006, 2008)

Ljubljana University (Slovenia, 2007)

**Teaching experience:**

"Group Theory", advanced undergraduate course, Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University, Spring 2003, Spring 2007.

"Introducing to  $C^*$ -Algebras", advanced undergraduate course, Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University, Spring 2006.

"Mathematical logic", tutorials for undergraduate course, Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University, Fall 2002 – 2005.

"Algebra, II: General Algebra and Number Theory", tutorials for undergraduate course, Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University, Fall 1998–Spring 1999.

"Algebra, I: Linear algebra", tutorials for undergraduate course, Mechanics and Mathematics faculty, Kyiv Taras Shevchenko University, Fall 1998–Spring 1999.

1997–2002 — jury member of Ukrainian Mathematical Competitions for schoolchildren (regional level).

**Service:**

from 2010 – member of the Doctoral (C.Sc and D.Sc) Committee, Kyiv Taras Shevchenko University.