

CURRICULUM VITAE

NAME: Eugene (Eugeny) PLOTKIN.

PERSONAL: born on September 22, **1955** in Sverdlovsk, U. S. S. R.

EDUCATION

1992 – **Dr. Sci.** – Habilitation (highest degree) for Latvian Republic, Latvian University, Riga;

1985 – **Ph. D.** in Mathematics: , Leningrad University (presently Sanct-Petersburg University), Thesis: “*Net subgroups of Chevalley groups and stability questions for K_1 -functor*” (advisor Prof. Z. I. Borewicz);

1982–1985 – Postgraduate studies, Leningrad University;

1978 – **M. Sc.** in Mathematics: Leningrad University;

1972–1978 – Undergraduate and graduate studies, Leningrad University.

POSITIONS HELD

2020–present – Full Professor,
Bar Ilan University, Ramat Gan,

2002–2020 – Leading Research Fellow, Professor,
Bar Ilan University, Ramat Gan,

1998–2002 – Senior Research Fellow, Senior Lecturer,
Bar Ilan University, Ramat Gan,

1993–1998 – Research Fellow, Lecturer,
Bar Ilan University, Ramat Gan,

Fall 1994 – Visiting Professor of the *Sonderforschungsbereich 343* at the University of Bielefeld, Germany;

1988–1993 – Associate Professor of Mathematics at the Riga Technical University,
Riga, Latvia;

1987–1988 – Assistant Professor at the Military Academy, Dept. of Mathematics,
Riga, Latvia;

1978–1987 – Researcher at the VNIIIVodpolimer (All-Union Research Institute for Soil and Water Improvement).

MEMBERSHIP

1996–present – Member of Israel Mathematical Union;

1992–present – Member of Latvian Mathematical Union.

RESEARCH INTERESTS

Primary: Chevalley groups, Classical groups, Algebraic groups, Algebraic K-theory; Group Theory;

Secondary: Lie algebras, Representation theory, Computer algebra, Algebraic theory of automata, Universal Algebra, Logic.

PUBLICATIONS

See the list enclosed.

TEACHING (since 1979; undergraduate, graduate and postgraduate courses):

Calculus I-II-III, Complex analysis, Linear algebra, Analytic geometry, Probability theory, Differential equations, Set theory, Logic, Group theory, Abstract algebra, Chevalley groups, Semisimple Lie algebras. Advanced Algebraic Structure for CS.

RESEARCH GRANTS:

Grant INTAS “*Structure of classical groups and Chevalley groups*” joint with A. Bak, N. Vavilov, etc., 1994–1996;

Grant ISF “*Algebra, geometry, and arithmetic of linear groups*” joint with G. Soifer, Y. Segev, B. Kunyavskii, 1997–2000;

ISF Centres of Excellence Grant “*Group theoretic methods in study of algebraic varieties*” joint with J. Bernstein, M. Teicher, L. Rowen, G. Soifer, B. Kunyavskii, etc., 1999–2002, 2003–2006;

Grant INTAS “*Algebraic K-theory, groups and algebraic homotopy theory*” joint with A. Bak, B. Kunyavskii, N. Vavilov, 2001–2004;

Research Training Network grant by EC, RTN2-2001-00193 K- Algebraic K-Theory, Linear Algebraic Groups and Related Structures, joint with B.Kunyavskii, L.Rowen and others, 2002–2005, 2005–2006.

CONFERENCES (talks):

2021 – Ischia Online Group Theory Conference (GOThIC),
"Logical equivalences of linear groups"
April 21, St.Petersburg, (invited talk)

2020 – Actual problems of the theory of algebraic groups
"Two types of logical rigidity modeled on Chevalley and Kac-Moody groups"
Herzen University
December 16, St.Petersburg, Russia; (invited talk)

2020 – Manhattan Algebra Day
"First order rigidity for algebraic groups "
CUNY
December 5, New York, USA; (invited talk)

2020 – *Maltcev Meeting 2020*
"First order rigidity for algebraic groups"
Institute of Mathematics. S.L. Sobolev SB RAS
November 16–20, Novosibirsk, Russia; (contributed talk)

2019 – *Actual problems of the theory of algebraic groups*
"On commutator width of groups"
Herzen University
September 16–18, St.Petersburg, Russia; (invited talk)

2017 – *Mathematical Congress of the Americas 2017 (MCA)*
"Word equations and word equations with constants"
CRM and McGill University
July 24-28, Montreal, Canada; (invited section talk)

2017 – *89th Workshop on General Algebra AAA94 + NSAC 2017*
"Actions of endomorphism semigroups on definable sets"
Novi Sad University
June 15-18, Novi Sad, Serbia; (contributed talk)

2017 – *Workshop on Group Theory –
on the Occasion of Arye Juhasz 70th Birthday*
"Word equations with constants"
Technion
January 4-6, Haifa, Israel (invited talk)

2016 – *Geometry of mapping class groups and $Out(F_n)$*
MSRI Workshop, MSRI
October 25-28, Berkeley, USA, (participation)

2015 – *Lie and Jordan Algebras, their Representations and Applications*
"Word maps in Kac-Moody setting"
San Paulo University
December 13-19, Bento Goncalves, Brasil (invited talk)

2015 – *Workshop on Reductive Groups and Related Structures*
"Birational equivalence of groups"
POMI
May 12-15, Saint Petersburg, Russia (invited talk)

2015 – *Infinite group theory: from the past to the future*
"Equations over algebras: how the logical geometry appears"

Fairfield University – Graduate Center CUNY
April 24-25, Fairfield-New York, (invited talk)

2015 – 89th *Workshop on General Algebra AAA88*
"Similarity of geometries over algebras"
Dresden Technical University
February 26-28, Dresden, Germany; (contributed talk)

2015 – Non-associative algebra and *Lie theory*
"Word maps evaluated on non-associative algebras"
National Autonomous University of Mexico
January 26-31, Oaxaca, Mexico, (invited talk)

2014 – Tsukuba Workshop on infinite-dimensional *Lie theory and related topics*
"Word maps evaluated on groups and algebras"
Tsukuba University
October 20-23, Tsukuba, Japan, (invited talk)

2014 – 88th *Workshop on General Algebra AAA88*
"Geometries over algebras: where to go?"
Warsaw Technical University
June 19-22, Warsaw, Poland;

2013 – International conference "Geometric and Asymptotic Group Theory with Applications" (GAGTA 7)
"Word maps evaluated on algebras"
City College of New York
May 28-31, New York, USA, (plenary talk)

2013 – International conference "Word maps and stability of representations "
"Word maps on algebras"
Erwin Schredinger International Institute, Academy of Science
April 17-25, Vienna, Austria, (invited talk)

2012 – International conference "Algebraic groups and related structures"
"Word maps and around"
The Euler International Math. Institute, Academy of Science
September 17-25, St.Petersburg, Russia, (invited talk)

2012 – The 16th *Midrasha Mathematicae, "Words and Growth"*
"Equations over algebras: old and new problems"
Institute for Advanced studies, Hebrew University, Jerusalem,

June 10-15, Jerusalem, Israel, (invited talk)

2012 – 84th Workshop on General Algebra,
"Equations over algebras: how the logical geometry appears"
Institute of Algebra at Technische Universität Dresden,
June 8-10, Dresden, Germany, (plenary talk)

2011 – Workshop "Finite Groups and Their Automorphisms",
Istanbul, Turkey, June 7-11,

2011 – 81th Workshop on General Algebra,
"Algebraic logic and logically geometric types in varieties of algebras"
Salzburg University, February 3-11, Salzburg, Austria,

2010 – International Algebraic Symposium,
Moscow State University, Moscow, Russia,

2010 – Workshop on Equations and First Order Properties in Groups
CRM, University of Montreal, Montreal, Canada, (invited talk)

2010 – Workshop on Geometric, Asymptotic, Combinatorial Group Theory
CRM, University of Montreal, Montreal, Canada, (invited talk)

2010 – International Algebraic Conference
St.Petersburg, Russia;

2010 – 79th Workshop on General Algebra
Olomouc, Czech Republic;

2008 – Workshop Algebra, Geometry, Arithmetic, Dynamics
Related to the Solvable Radical and Representations of Finite Groups
Dusseldorf, Germany, (invited talk)

2008 – The 14th Amitsur Symposium
Technion, Haifa, Israel; (invited talk)

2008 – Profinite and Asymptotic Group Theory,
Oberwolfach, Germany; (invited talk)

2008 – International algebraic conference on the occasion of 100th
anniversary of Professor A. G. Kurosh (1908 - 1971)
Moscow, Moscow State University, Russia;

2007 – Workshop on Geometry around the Solvable Radical
Dusseldorf, Germany, (invited talk)

2007 – *International Algebraic Conference dedicated to the 100th anniversary of D. K. Faddeev, Saint-Petersburg, Russia;*

2007 – *Groups and their actions, Bedlewo-Poznan, Poland (invited talk)*

2007 – *The First International Algebra and Geometry Conference, Yerevan, Armenia (invited talk)*

2006 – *Workshop on Geometry and Group Theory, Max Plank Institute for Mathematics, Bonn, Germany;*

2006 – *Algebraic K-theory, algebraic homotopy and algebraic groups, Saint-Petersburg, Russia;*

2006 – *Combinatorial and geometric group theory, Vanderbilt University, Nashville, USA;*

2005 – *International algebraic conference, Ural University; Ecaterinburg, Russia;*

2005 – *Asymptotic and Probabilistic Methods in Geometric Group Theory; Geneve University, Geneve, Switzerland ;*

2005 – *Annual Meeting of Israel Math. Union Neve Ilan-2005, Israel;*

2004 – *Workshop on Cryptography and Related Mathematics Chuo University, Tokyo, Japan;*

2004 – *The Ninth Amitsur Memorial Symposium Jerusalem, Israel;*

2004 – *International Algebraic Conference on the occasions of 250th Anniversary Moscow State University Moscow, Russia;*

2003 – *International Conference Geometric and Group theory methods in mathematics and physics, Tbilisi-Batumi, Georgia;*

2003 – *International Conference, Groups and Group Rings X Glivice, Poland;*

2002 – *International Algebraic Conference, dedicated to Z.I.Borevichz, St. Petersburg, Russia;*

2001 – *K-theory and linear algebraic groups, Duisburg, Germany*

2001 – *First SIAM-EMS Conference “AMCV” 2001, Berlin, Germany*

1999 – *International Conference in Algebra and Semigroups, St. Petersburg, Russia;*

1999 – *Annual Meeting of Israel Math. Union, Haifa University, Israel;*

1998 – *International Conference on Linear Algebraic Groups and Related Structures, Bielefeld, Germany;*

- 1998** – *Kurosh Algebraic Conference, Moscow, Russia;*
- 1997** – *Tenth Haifa Matrix Theory Conference, Haifa, Israel;*
- 1997** – *International Conference: Groups 97, Bath, England;*
- 1997** – *International Algebraic Conference dedicated to the memory of D. K. Faddeev, St.Petersburg, Russia;*
- 1995** – *Euroconference on Linear Algebraic Groups and Related Structures, Bielefeld, Germany;*
- 1995** – *Workshop on K-theory and Number Fields, Nijmegen, Netherlands;*
- 1994** – *Workshop on K-theory, Classical Groups, Localization and Related Topics, Bielefeld, Germany;*
- 1993** – *International Conference on Algebraic K-theory, Oberwolfach, Germany;*
- 1992** – *International Conference “Algebra and Analysis”, Irkutsk, Russia;*
- 1991** – *International Conference in Algebra, Barnaul, Russia;*
- 1991** – *All-Union Conference “Lie Algebras and Applications”, Kazan, Russia;*
- 1990** – *International Mathematical Congress, Kyoto, Japan;*
- 1990** – *International Conference on Non-associative Algebras, Hiroshima, Japan;*
- 1981–1989** – *XVI, XVII, XVIII, XIX National Conferences in Algebra: Leningrad, Minsk, Kishinev, Lvov; IX, X, XI National Conferences in Group Theory: Moscow, Gomel, Sverdlovsk; National Mathematical Conferences: Tartu, Riga.*

SOME COLLOQUIUM AND SEMINAR TALKS:

- 2015** Stevens Institute of Technology, Hunter College
- 2014** Chebyshev Lab.,
- 2012** UCLA
- 2009** Bar Ilan
- 2005** Institute of Mathematics, POMI, St.Petersburg,
- 2004** Gettysberg College (USA); University of Manitoba, (Winnipeg, Canada), McGill University (Montreal, Canada); Tsukuba University (Japan); UCSD (USA); Bar Ilan;
- 2003** Hebrew University; York University (Toronto, Canada); Wayne State University (USA), Ohio State University (USA); Chicago University (USA); Bar Ilan;
- 2002** Hebrew University; Bar Ilan;
- 2001** Bar Ilan;
- 2000** University of Manitoba (Canada); CUNY (USA), Northwestern University (USA);
- 1997** Toronto University (Canada);
- 1996** Madison University, University of Milwaukee (USA),

Notre Dame University, Wayne State University (USA),
 Bar Ilan University (Israel), Hiroshima University (Japan),
 Tsukuba University, Kumamoto University (Japan);
1995 Hebrew University, Ben Gurion University (Israel);
1994 Bielefeld University (Germany), Freiburg University (Germany);
1993 Bar Ilan University (Israel), University of Rome I “La Sapienza” (Italy);
1990 Tsukuba University (Japan);
1981–1992 Leningrad Branch of the Mathematical Institute of the U.S.S.R. Academy of Sciences, Latvian University, Erevan University for Education, Minsk Institute of Mathematics, Tbilisi University (U. S. S. R.).

VISITINGS :

2008 Max Planck Institute, Germany
2007 Max Planck Institute, Germany
2006 Max Planck Institute, Germany
2000 Bielefeld University, Germany
2000 Manitoba University, Canada
1996 Tsukuba University, Japan
1994 Bielefeld University, Germany

CONFERENCES ORGANIZING:

2013 – International Workshop Groups, Algebras and Identities
 March 20-24, 2016, Hebrew University - Bar Ilan University, Israel
2013 – International Conference on Geometric, Combinatorial and Dynamics aspects of Semigroup and Group Theory,
 June 11-14, 2013, Bar Ilan, Israel
2008 – Workshop Algebra, Geometry, Arithmetic, Dynamics
 Related to the Solvable Radical and Representations of Finite Groups
 Dusseldorf , Germany, November, 25–28
2007 – Workshop on Geometry around the Solvable Radical
 Dusseldorf , Germany, October 8-10
2005 – International Conference ”Group theory and Universal Algebra”
 Jerusalem–Beer Sheva, Israel, December 20-25
2004 – Workshop on Linear Algebraic Groups, Quadratic Forms and Related Topics,
 Eilat, Israel, February 1 – 5

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