

## 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 VNIIVodpolimer (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 Universitat 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, Switzeland ;*
- 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** – *Inernational 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

**WORK ADDRESS:** Department of Mathematics & Computer Science  
 Bar Ilan University, 52900 Ramat Gan, Israel.  
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54021 Givat Shemuel, Israel.*

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