

CURRICULUM VITAE

General

First name: Bakhrom

Surname: Omirov

Sex: Male

Date of birth: 1972, April 14

Place of birth: Djambul, Kazakhstan

Nationality: Uzbek

Citizenship: Uzbekistan

Marital status: Married, four children

Official address: National University of Uzbekistan, Faculty of Mathematics, Department of "Algebra and Functional Analysis", 4, University str., Tashkent, 100174, Uzbekistan, Phone: +(998)712460224, Fax: +(998)712460227, www.nuu.uz

Private address: Apt. 34, Bldg 17, Quartal 14, Yunusobod District, Tashkent, 100194, Uzbekistan, phones: +(998)908054288 (mob.); +(998)712208404 (home), e-mail: omirovb@mail.ru

Education:

2000-2005 Namangan Engineering Economic Institute, Namangan, (Uzbekistan), student of tuition by correspondence

1996-1999 *Graduate:* Institute of Mathematics of Uzbek Academy of Sciences (Tashkent), Uzbekistan, Ph.D student

1989-1993 *Undergraduate:* Novosibirsk State University, Russia

Languages: English (good), Russian (very good), Uzbek (native), Spanish (speaking – good, writing – weak, reading – good).

Academic Degrees: • Homologation of the Diploma of the Doctor of Sciences in physics and mathematics (received in 30.11.2006, Tashkent, Uzbekistan) to the official Spanish Doctor



Degree at the University of Santiago de Compostela, 26.03.2012, Santiago de Compostela, Spain

- Doctor of Sciences in physics and mathematics, 30.11.2006, Tashkent, Uzbekistan

Dissertation title: Nilpotent Leibniz algebras and superalgebras. Supervisor: Prof. Sh.A. Ayupov

- Bachelor Degree in Economic, Namangan Engineering Economic Institute, 21.05.2005, Namangan, Uzbekistan
Dissertation title: Labor migration. Prof. I.K. Abdullaeva

- Doctor of Philosophy in physics and mathematics (PhD) 27.04.2000, Tashkent, Uzbekistan

Dissertation title: On complex finite-dimensional nilpotent Leibniz algebras. Supervisor: Prof. Sh.A. Ayupov

- Master of Science, Novosibirsk State University, 10.06.1993, Novosibirsk, Russia

Thesis title: Degenerations of complex Jordan algebras dimensions less than 4. Supervisor: Prof. I.P.Shestakov

Since 2013 has permanent resident card of Spain.

Accreditation as Associated Professor (Profesor Contratado Doctor) for public and private universities by the Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA), Spanish Ministry of Education and Science.

H-Index is equal to 24 by

<http://scholar.google.com/citations?user=IhhFMqcAAAAJ&hl=en>

RG Score 30.36 by https://www.researchgate.net/profile/Bakhrom_Omirov/stats/

Link to Orcid: <http://orcid.org/0000-0002-5821-4365>

Researcher ID: E-4209-2018

Professional occupation:

01/07/2020 – Head of the Department "Algebra and functional analysis",
till now National University of Uzbekistan, Uzbekistan

01/09/2019 – Fulbright Scholar, University of California San Diego, USA;
30/06/2020

23/06/2016 – Head of the Department "Algebra and functional analysis",
31/08/2019 National University of Uzbekistan, Uzbekistan

- 6/03/ 2012 – 22/06/ 2016 Leading Scientific Fellow, Institute of Mathematics (former Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences), Uzbekistan
- 11/07/2010 - march of 2012 Leading Scientific Fellow, Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences, (Tashkent), Uzbekistan
- 01/01/2010 - 10/07/2010 Visiting Professor of University of Seville, Spain
- 01/05/2009 - 31/12/2009 Leading Scientific Fellow, Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences, (Tashkent), Uzbekistan
- 01/11/2008 - 30/04/2009 Visiting Professor of University of Seville, Spain
- 2007 - 31/10/2008 Leading Scientific Fellow, Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences, (Tashkent), Uzbekistan
- 2005-2007 Senior Scientific Fellow, Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences (former Institute of Mathematics of Uzbek Academy of Sciences) Tashkent, Uzbekistan
- 2003-2008 Associate Professor (part time), Faculty of Mathematics, Department of Algebra and Analysis, National University of Uzbekistan, (Tashkent), Uzbekistan
- 2002-2005 Post Doctoral Fellow, Institute of Mathematics of Uzbek Academy of Sciences (Tashkent), Uzbekistan
- 2001-2002 Scientific Fellow, Institute of Mathematics of Uzbek Academy of Sciences (Tashkent), Uzbekistan
- 1999-2001 Junior Scientific Fellow, Institute of Mathematics of Uzbek Academy of Sciences (Tashkent), Uzbekistan
- 1996-1999 Institute of Mathematics of Uzbek Academy of Sciences (Tashkent), Uzbekistan, Ph.D student
- 1993-1996 Namangan State University (Uzbekistan), Lecturer

Awards:

- "Top Researcher in Natural Sciences" Scopus Award 2018 by Elsevier, Tashkent, Uzbekistan, 23.11.2018;
- Web of Science Awards 2017 in the category of "Highly cited author", Clarivate Analytics, Uzbekistan, 27.11.2017;
- Awarded with the highest state prize of the Republic of Uzbekistan in the field of science and technology, 23.08.2017;
- Individual Travel Grants of IMU for visits of the University of Santiago de Compostela (2015, 2016) and the University of Seville (2011, 2013);
- NANUM Grant for participation of International Congress of Mathematicians (ICM) 2014, Seoul, South Korea, 12.08.2014 - 19.08.2014;
- The Supreme Attestation Committee of the Republic of Uzbekistan award with Diploma of the scientific title Professor of Algebra, 31.10.2013;
- Grant of the Academy of Sciences for the Developing World (TWAS) for purchase of equipment, No.:11-018RG/MATHS/AS_I-UNESCO FR:3240262715, 2012;
- Awarded with TWAS prize for Young Scientists in Developing Countries for 2010 year;
- TWAS Young Affiliate, Trieste, Italy for 2008-2013 years;
- Grant of DAAD for short visit of Institute für Angewandte Mathematik Universität, Bonn (Germany) for 10.05.2008 – 05.07.2008;
- The Supreme Attestation Committee of the Republic of Uzbekistan award with Diploma of the scientific title "Senior Scientific Researcher in Mathematical logic, Algebra and Theory of Numbers", 25.10.2007;
- "Derivations, Leibniz structures on operator algebras and their applications in mathematical physics and quantum probability", project of DFG 436 USB 113/10/0-1, Bonn, Germany, 2006-2007;
- INTAS Young Scientist Fellowship - Postdoctoral Fellowship, INTAS (Belgium) Ref. Nr. 04-83-3035 for 2005-2006 years;
- The grant of DFG 436 USB 113/4 project (Germany) for 2002-2004 years;
- The award of Uzbek Academy of Sciences Prize for young scientists, 2001.

Visits:

1. University of California San Diego, USA, 01/09/2019 – 30/06/2020 (Fulbright Scholar);
2. Federal University of ABC, Brazil, 31.05.2019 – 08.07.2019 (for discussion of results);

3. University of Santiago de Compostela, Spain, 26.09.2018 – 27.10.2018 (for discussion of results);
4. Sichuan University, China, 02.03.2018 - 26.04.2018 (for discussion of results);
5. University of Santiago de Compostela, Spain, 17.02.2018 – 26.02.2018 (for discussion of results);
6. University Putra Malaysia, Malaysia, 13.12.2017 - 29.12.2017 (for discussion of results);
7. The United Arab Emirates University, United Arab Emirates, 02.11.2017 – 09.11.2017 (for discussion of results);
8. University of Santiago de Compostela, Spain, 28.09.2017 – 31.10.2017 (for discussion of results);
9. University of Santiago de Compostela, Spain, 14.11.2016 – 21.12.2016 (for discussion of results);
10. Xinyang Normal University, China, 31.05.2016 – 09.06.2016 (invited speaker in International Conference "Lie algebra");
11. TWAS Research Grants Conference - Sharing Careers in Science, Trieste, Italy, 18.04.2016 – 22.04.2016 (present a talk in the conference),
12. University of Santiago de Compostela, Spain, 27.03.2016 – 06.05.2016 (for discussion of results);
13. Matematica Aplicada I, Universidad de Sevilla, Spain, 15.10.2015 – 01.12.2015 (for discussion of results);
14. Harran University, Turkey, 10.06.2015 – 09.07.2015 (for discussion of results);
15. University of Nantes, France, 28.04.2015 – 26.05.2015 (for discussion of results);
16. University of Santiago de Compostela, Spain, 19.01.2015 – 24.02.2015 (for discussion of results);
17. University of Santiago de Compostela, Spain, 07.09.2014 – 24.10.2014 (for discussion of results);
18. International Congress of Mathematicians (ICM) 2014, Seoul, South Korea, 12.08.2014 - 19.08.2014 (presenter of short communication);
19. University of Santiago de Compostela, Spain, 21.02.2014 – 28.02.2014 (for discussion of results);
20. University of Santiago de Compostela, Spain, 24.11.2013 – 29.11.2013 (for discussion of results);
21. Matematica Aplicada I, Universidad de Sevilla, Spain, 07.09.2013 – 11.10.2013 (for discussion of results);
22. University of Santiago de Compostela, Spain, 05.10.2012 – 14.12.2012 (for discussion of results);
23. University of Santiago de Compostela, Spain, 22.06.2012 – 21.07.2012 (for discussion of results);
24. University of Santiago de Compostela, Spain, 20.01.2012 – 24.03.2012 (for discussion of results);
25. Institute für Angewandte Mathematik Universität, Bonn, Germany, 16.10.2011 – 30.11.2011 (the project of DFG AL 214/36-1);
26. TWAS 22nd General Meeting, Trieste, Italy, 20.11.2011 – 24.11.2011 (participant as TWAS Young Affiliate)

27. Matematica Aplicada I, Universidad de Sevilla, Spain, 27.09.2011–15.10.2011 (for discussion of results);
28. Islamic University of Malaysia, Kuantan, Malaysia, 04.08.2011–24.08.2011 (for discussion of results);
29. University of Santiago de Compostela, Spain, 11.01.2011 – 29.03.2011 (for discussion of results);
30. TWAS 21st General Meeting, Hyderabad, India, 17.10.2010 - 24.10.2010 (participant as TWAS Young Affiliate)
31. Workshop “Deformation Methods in Mathematics and Physics”, Mathematisches Forschungsinstitut, Oberwolfach, Germany, 26.09.2010 – 02.10.2010;
32. Matematica Aplicada I, Universidad de Sevilla, Spain, 13.01.2010 – 10.06.2010 (for discussion of results);
33. University of Santiago de Compostela, Spain, 02.04.2010 – 07.04.2010 (for discussion of results);
34. University Putra Malaysia, Kuala Lumpur, Malaysia, 25.11.2009 – 22.12.2009 (for discussion of results);
35. Matematica Aplicada I, Universidad de Sevilla, Spain, 28.09.2009–29.10.2009 (for discussion of results);
36. University of Santiago de Compostela, Spain, 24.09.2009 – 28.09.2009 (for discussion of results);
37. University of Santiago de Compostela, Spain, 21.05.2009 – 24.06.2009 (for discussion of results);
38. Matematica Aplicada I, Universidad de Sevilla, Spain, 15.10.2008– 08.04.2009 (for discussion of results);
39. TWAS 19th General Meeting & 25th Anniversary Celebration, Mexico City, Mexico, 08.11.2008-16.11.2008 (chosen as TWAS young Affiliate);
40. Institute für Angewandte Mathematik Universität, Bonn, Germany, 10.05.2008 – 05.07.2008 (DAAD project);
41. Abdus Salam School of Mathematical Sciences Government College University, Lahore, Pakistan, 15.03.2008 – 24.04.2008 (for discussion of results).
42. Institute für Angewandte Mathematik Universität, Bonn, Germany, 31.01.2008 – 03.03.2008 (for discussion of results);
43. University Putra Malaysia, Kuala Lumpur, Malaysia, 03.12.2007–28.12.2007 (for discussion of results);
44. Institute für Angewandte Mathematik Universität, Bonn, Germany, 01.03.2007 – 31.03.2007 (the project of DFG 436 USB 113/10/0-1);
45. University of Santiago de Compostela, Spain, 02.10.2006–05.10.2006 (for discussion of results);
46. Matematica Aplicada I Universidad de Sevilla, Spain, 02.09.2006 – 30.11.2006 (by INTAS YSF Ref. Nr. 04-83-3035);
47. Matematica Aplicada I Universidad de Sevilla, Spain, 17.09.2005 – 14.12.2005 (by INTAS YSF Ref. Nr. 04-83-3035);
48. Institute für Angewandte Mathematik Universität, Bonn, Germany, 02.11.2004 – 17.12.2004 (the project of DFG 436 USB 113/4);

49. Matematica Aplicada I Universidad de Sevilla, Spain, 04.10.2004 – 02.11.2004 (for discussion of results);
50. Institute für Angewandte Mathematik Universität, Bonn, Germany, 19.10.2003 – 21.12.2003 (the project of DFG 436 USB 113/4);
51. Matematica Aplicada I, Universidad de Sevilla, Spain, 08.01.2003 – 31.01.2003 (for discussion of results);
52. Institute für Angewandte Mathematik Universität, Bonn, Germany, 03.10.2002–05.12.2002 (the project of DFG 436 USB 113/4);
53. University of Haute Alsace, Mulhouse, France, 11.11.1998 – 25.02.1999 (for discussion of results);

Other activities:

- Member of the Editorial Board of the Uzbek Mathematical Journal (2015 - till present time), <https://uzmj.mathinst.uz/editorial-board.html>;
- Bulletin of the Institute of Mathematics (2018-till present time) <http://mib.mathinst.uz/en/editorial-board.html>;
- Bulletin of National University of Uzbekistan: Mathematics and Natural Sciences (2019 - till present time), https://uzjournals.edu.uz/mns_nuu/editorialboard.html
- Member of Special Council D015.17.01 to confer academic degrees of Doctor of Philosophy in physics and mathematics (Ph.D.) and Doctor of Sciences in physics and mathematics, Institute of Mathematics (2005 - till present time);
- Member of Uzbek Mathematical Society (2006 - till present time);
- Member of American Mathematical Society (2006 - till present time);
- Reviewer of American Mathematical Society (2006 - till present time);
- Head of scientific seminar “Varieties of non associative algebras” for PhD students at Institute of Mathematics (2008 - till present time).

Member of Organizing and Program Committees of Conferences:

1. International Scientific Conference «Modern problems of applied mathematics and information technologies - Al-Khorezmiy», 13-15 September, 2018, Tashkent, Uzbekistan;
2. Republican scientific conference with participation of foreign scientists “Problems of modern topology and its applications”, 11-12 May, 2017, Tashkent, Uzbekistan;
3. Republican scientific conference with participation of foreign scientists “Modern problems of dynamical systems and their applications”, 1-2 May, 2017, Tashkent, Uzbekistan;
4. International Conference “Algebra, Analysis and Quantum Probability”, 10-12 September, 2015, Tashkent, Uzbekistan;
5. National Conference with the participation of scientists from CIS “Modern Problems of Differential Equations and its Applications”, 21-23 November, 2013, Tashkent, Uzbekistan;

6. International Conference “Problems of modern topology and applications”, 20-24 May, 2013, Tashkent, Uzbekistan;
7. National Conference “New theorems of young mathematicians – 2013”, 15-16 April, 2013, Namangan, Uzbekistan;
8. National Conference “Actual Problems of Mathematical Analysis”, 9-10 November 2012, Urgench, Uzbekistan;
9. International Conference “Operator algebras and related topics”, 12-14 September, 2012, Tashkent, Uzbekistan.

Member of Council for conferment of academic degree of Doctor of Philosophy (PhD) to:

- Elisa Cañete Molero, thesis title: "Description of some nilpotent Leibniz algebras of maximum length", 11.12.2012, University of Seville, Seville, Spain.
- Samuel Gómez Vidal, thesis title: "Naturally graded Zinbiel algebras", 13.09.2013, University of Seville, Seville, Spain.
- Yolanda Cabrera Casado, thesis title: "Evolution algebras", 16.12.2016, University of Malaga, Malaga, Spain.

Examiner for thesis's:

1. Hamza Abd El-Qader Yousef Alqrallah, thesis title: Behavior of trajectory on quadratic stochastic operators generated by ξ (as) -qso and related algebras, 30.03.2020 (PhD thesis), Universiti Malaysia Terengganu, Malaysia;
2. Al Hossain Ahmed Al Nashiri (Number: GS22747), thesis title: "Derivations of some classes of Leibniz algebras", 01.04.2013 (PhD thesis), University Putra Malaysia, Selangor, Malaysia;
3. Narziev Nodir Bakhshilloevich, thesis title: "Algebraic structures arising in population genetics", 14.12.2011 (PhD thesis), Tashkent, Uzbekistan;
4. Rakhimov Isamiddin Sattarovich, thesis title: "Invariants of the variety of filiform Leibniz algebras and elliptic curves", 27.06.2011 (Doctor of Science thesis), National University of Uzbekistan, Tashkent, Uzbekistan;
5. Ibragimov Farkhod, thesis title: "Recursive separable models", 23.05.2011 (PhD thesis), National University of Uzbekistan, Tashkent, Uzbekistan;
6. Ishanqulov Farkhod Turaevich, thesis title: "Description of generalized harmonic functions on Kelley tree", 03.01.2011 (PhD thesis), Institute of Mathematics and Information Technologies of Uzbek Academy of Sciences, Tashkent, Uzbekistan;
7. Sharifah Kartini Said Hussain (Number: GS16535), thesis title: "On structural properties of Leibniz algebras", 24.03.2011 (PhD thesis), University Putra Malaysia, Selangor, Malaysia;

8. Tadjetdinov Sagalatdin, thesis title: "Subnormal structure of linear groups over complete rings", 23.01.2008 (Doctor of Science thesis), Tashkent, Uzbekistan;

Supervisor for PhD students:

1. Adashev J.Kh., Dr. starting date 26.01.2012, title of thesis «The description of n -dimensional Zinbiel algebras of nilindex $n-2 \leq k \leq n+1$ », Institute of Mathematics, Tashkent, Uzbekistan;
2. Kurbanbaev T.K., Dr. starting date 26.04.2012, title of thesis «The classification of low dimensional Leibniz algebras over the field of p -adic numbers», Institute of Mathematics, Tashkent, Uzbekistan;
3. Turdibaev R.M., Dr. starting date 22.12.2015, title of thesis «Leibniz cohomology in low degrees. Some structure theory of Leibniz n -algebras», University of Santiago de Compostela, Spain;
4. Karimjanov I.A., Dr. starting date 16.06.2017, title of thesis «Classification of Leibniz algebras with a given nilradical and with some corresponding Lie algebras», University of Santiago de Compostela, Spain;
5. Masutova K.K., Dr. starting date 16.06.2017, title of thesis «On some null-filiform algebras and solvable Leibniz algebras», University of Santiago de Compostela, Spain;
6. Mamadaliev U.Kh., Dr. starting date 25.12.2020, title of thesis «Rigidity of solvable Leibniz algebras with a given nilradical», National University of Uzbekistan, Tashkent, Uzbekistan;
7. Solijanova G.O., Dr. starting date 29.07.2021, title of thesis «Residually solvable Leibniz extensions of given pro-nilpotent algebras», National University of Uzbekistan, Tashkent, Uzbekistan;
8. Adashev J. Kh., Doctor of Science (habilitation), starting date 28.10.2021, title of thesis «Description of solvable and central extensions of nilpotent Leibniz algebras and their Koszul dual algebras with a given characteristic sequence», Institute of Mathematics, Tashkent, Uzbekistan;

Co-supervisor for PhD students:

1. Khudoyberdiyev A.Kh., Dr. starting date 28.10.2010, title of thesis «The classification some nilpotent graded finite dimensional complex Leibniz algebras», Institute of Mathematics, Tashkent, Uzbekistan;
2. Rikhsiboev I.M., Dr. starting date 25.10.2007, title of thesis «Nilpotent Leibniz algebras and diassociative algebras», Institute of Mathematics, Tashkent, Uzbekistan;

3. Redjepov Sh.B., Dr. starting date 18.10.2012, title of thesis «Classification of the naturally graded n-dimensional Leibniz algebras of nilindex n-2», Institute of Mathematics, Tashkent, Uzbekistan;
4. Izzat Salem Suleiman Qaralleh, Dr. starting date 20.05.2014, title of thesis « ξ^s -quadratic stochastic operators and corresponding algebras», International Islamic University of Malaysia, Kuantan, Malaysia;
5. Mohamed Ardo Mohamed, Dr. starting date 14.08.2018, title of thesis «Classification of Leibniz algebras over finite fields», University Putra Malaysia, Selangor, Malaysia.

Supervisor for 22 Masters and for more than 40 Bachelors of National University of Uzbekistan and Namangan State Pedagogical University.

Participations in the projects:

1. "Non commutative modules, Leibniz algebras and polynomial cascades on simplexes", No. OT-F4-31, Committee for the Coordination of the Development of Science and Technology under the Cabinet of Ministers of the Republic of Uzbekistan, Uzbekistan, 2017-2020 (head of the project);
2. "Homology, homotopy and categorical invariants in groups and nonassociative algebras", No. MTM2016-79661-P, Ministerio de Economía y Competitividad, Santiago de Compostela, Spain, 2017 - 2020 (participant);
3. "Algebras near to Lie algebras: cohomologies, identities and deformations", No. 0828/GF4 of Ministry of Education and Science of the Republic of Kazakhstan, Almaty, Kazakhstan, 2016 - 2018 (participant);
4. "Evolution algebras", No. 0251/GF3 of Ministry of Education and Science of the Republic of Kazakhstan, Almaty, Kazakhstan, 2014 - 2015 (participant);
5. "Homology, homotopy and categorical invariants in groups and nonassociative algebras" No. MTM2013-43687-P, Ministerio de Economía y Competitividad, Santiago de Compostela, Spain, 2014 - 2016 (participant);
6. Operator and non-associative algebras, dynamic systems and its applications in mechanics and population biology, No. F4-FA-F013 of Ministry of higher and secondary specialized education of the Republic of Uzbekistan, Tashkent, Uzbekistan; 2012 - 2016 (participant);
7. Quantum dynamics, topologic and non-associative structures on operator algebras, No. FA-F1-F003+F067 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2007 - 2011 (participant);
8. Structure theory of nilpotent Leibniz superalgebras and Leibniz n-algebras, No. 17-08 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2008 - 2009;

9. Evolution algebras and its applications in statistical mechanics and population genetics, No. 8-10 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2010 - 2011 (participant);
10. Structure theory of finite-dimensional Zinbiel algebras, No. FE4-FA-F016 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2009 - 2010 (head of the project);
11. p-Adic equations and low-dimensional Leibniz algebras over the field of p-adic numbers, № EF4-OT-0-20581 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2008 - 2009 (head of the project);
12. "On Leibniz superalgebras", NATO-Reintegration Grant No.BP.EAP.RIG. 983169 of NATO Public Diplomacy Division, Brussels, Belgium, 2008 - 2010 (Scholarship holder);
13. Graded nilpotent Leibniz algebras and diassociative algebras, № EF-4-4 of Uzbek Academy of Sciences, Tashkent, Uzbekistan, 2007 - 2008 (participant);

Referee of the following journals: Linear Algebra and its Applications; Journal of Algebra; Communications in Algebra; Manuscripta Mathematicae; Journal Geometry and Physics; Algebra Colloquium; Linear and Multilinear algebra; Algebras and Representation Theory; Journal of Algebra and its Applications, Acta Mathematica Sinica.

Research field: Non associative algebras, Lie (super)algebras, Leibniz (super)algebras, n-Leibniz algebras, structure theory of algebras, p-adic analysis, evolution algebras and their applications, algebraic geometry.