

CURRICULUM VITAE

Prof. Dr. Zaitov Adilbek Atakhanovich

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EDUCATION		
Degree	Institution	Date
D.Sc.	Institute of Mathematics and Information Technologies, Uzbekistan (education)	02.01.2005 – 31.12.2007
	Institute of Mathematics and Information Technologies, Uzbekistan Department of Operator algebras and their applications Thesis title: “ <i>Order-preserving functionals on topological spaces</i> ” (defense)	2012
Ph.D.	Institute of Mathematics, Uzbekistan (education)	01.11.2000 – 31.10.2003
	National university of Uzbekistan Mechanics and Mathematics Faculty Thesis title: “ <i>Some properties of spaces of signed measures and of functor of weak additive normed and order-preserving functionals</i> ” (defense)	2004
M.Sc. (Degree of Higher education)	Tashkent State Pedagogical Institute, Uzbekistan Geometry Department Thesis title: “ <i>Dense mappings on topological spaces</i> ”	1990 – 1995
B.Sc.	Tashkent State Pedagogical Institute, Uzbekistan Geometry Department	1990 – 1995
ACADEMIC AND PROFESSIONAL EXPERIENCES		
Professor, TAQU, Uzbekistan		01.05.2018 – Present
Assoc. Professor, TAQU, Uzbekistan		12.05.2012 – 22.11.2015
Assoc. Professor, Department of Natural Sciences, Academy of the Armed Forces of Uzbekistan		01.11.2010 – 11.05.2012
Senior Scientific Researcher, Institute of Mathematics and Information Technologies, Uzbekistan		02.01.2008 – 31.10.2010

Senior Scientific Researcher, Institute of Mathematics and Information Technologies, Uzbekistan	01.11.2003 – 31.12.2004
Senior teacher, Department of Mathematical Analysis, Tashkent state pedagogical institute, Uzbekistan	02.09.1998 – 31.10.2000
Assistant teacher, Department of Mathematical Analysis, Tashkent state pedagogical institute, Uzbekistan	02.09.1995 – 31.08.1998
ADMINISTRATIVE EXPERIENCES	
- Vice rector for scientific research and innovations, TAQU	11.05.2023 – Present
- Head of the Department of Mathematics and Natural Sciences, TAQU	05.09.2018 – 10.05.2023
- Head of the Khorezm Regional Department of Secondary Special and Vocational Education	23.11.2015 – 30.05.2018
- Head of the Department of Mathematics and Natural Sciences, TAQU	12.05.2012 – 22.11.2015
RESEARCH AREAS	
Topology; Functional Analysis; Idempotent mathematics; Pure Mathematics; Applied Mathematics	
PUBLICATIONS	
A. Peer-Reviewed Journal Articles (monitored by Scopus)	
<p>A1. Zaitov, A.A. (2003). “Some categorical properties of the functors O_τ and O_R of weakly additive functionals.” <i>Mathematical Notes</i>, Vol. 79, No. 5, pp. 632-642. https://link.springer.com/content/pdf/10.1007/s11006-006-0072-0.pdf</p> <p>A2. Zaitov, A.A. (2006). “The functor of order-preserving functionals of finite degree.” <i>Journal of Mathematical Sciences</i>, Vol. 133, No. 5, pp. 1602-1603. https://doi.org/10.1007/s10958-006-0071-4</p> <p>A3. Albeverio, S., Ayupov, Sh.A., Zaitov, A.A. (2008). “On certain properties of the spaces of order-preserving functionals.” <i>Topology and its Applications</i>, Vol. 155, No. 16, pp. 1792 - 1799. https://doi.org/10.1016/j.topol.2008.05.019</p> <p>A4. Ayupov, S.A., Zaitov, A.A. (2009). “Functor of weakly additive τ-smooth functionals and mappings.” <i>Ukrainian Mathematical Journal</i>, Vol. 61, No. 9, pp. 1380-1386. https://doi.org/10.1007/s11253-010-0283-0</p> <p>A5. Zaitov, A.A. (2010). “Open mapping theorem for spaces of weakly additive homogeneous functionals.” <i>Mathematical Notes</i>, Vol. 88, No. 5. https://doi.org/10.4213/mzm4042</p> <p>A6. Zaitov, A.A., Ishmetov, A.Y. (2019). “Homotopy Properties of the Space $I_f(X)$ of Idempotent Probability Measures.” <i>Mathematical Notes</i>, Vol. 106, No. 4. https://doi.org/10.4213/mzm12166</p> <p>A7. Zaitov, A.A. (2019). “Geometrical and Topological Properties of a Subspace $P_f(X)$ of Probability Measures.” <i>Russian Mathematics</i>, Vol. 63, No. 10. https://doi.org/10.26907/0021-3446-2019-10-28-37</p> <p>A8. Zaitov A.A., Jumaev D.I. (2019) “Hyperspaces of Superparacompact Spaces and Continuous Maps”, <i>Universal Journal of Mathematics and Application</i>, №2 2019, 65-69.</p> <p>A9. Zaitov, A.A. (2020). “On a metric on the space of idempotent probability measures.” <i>Applied General Topology</i>, Vol. 21, No. 1. https://doi.org/10.4995/agt.2020.11865</p> <p>A10. Kamilov, K.H., Zaitov, A., Tulaganov, A. (2020). “On a formula finding fractal dimension” <i>Archives of Materials Science and Engineering</i>, Vol. 104, No. 1. https://doi.org/10.5604/01.3001.0014.3865</p> <p>A11. Zaitov, A.A., Jumaev, D.I. (2021) “Hyperspace of the π-complete spaces and maps”</p>	

Eurasian Mathematical Journal.” Vol. 12, No.2. <https://doi.org/10.32523/2077-9879-2021-12-2-104-110>

- A12.** Zaitov A.A. (2022) “Functor of weakly additive τ -smooth functionals”, *Geometry and topology, Itogi Nauki i Tekhniki. Ser. Sovrem. Mat. Pril. Temat. Obz.*, **197**, VINITI, Moscow, 2021, 36-45 (In Russian)
- A13.** Zaitov A.A., Kholturayev Kh.F. (2022) “On Some Properties of Infinite Iterations of the Functor of Idempotent Probability Measures”, *Lobachevskii Journal of Mathematics*, Vol. 43, No. 8, pp. 2341-2348.
- A14.** Zaitov A.A., Kurbanov Kh. (2022) “When is the space of semi-additive functionals an absolute (neighbourhood) retract?” *Proceedings of the International Geometry Center*, Vol. 15, no. 2, p. 86-99.
- A15.** Zaitov A.A., Eshkobilova D. T., “Dugundji Compacta and the Space of Idempotent Probability Measures”, *Mathematical Notes*, 2023, Vol. 114, No. 4, pp. 433–442.
- A16.** Ljubiša D. R. Kočinac, Feruz S. Aktamov, Adilbek A. Zaitov, “An open mapping theorem for order-preserving operators”, *Kragujevac Journal of Mathematics*, 2023, Vol. 47, Issue 7, pp. 1057-1063.

B. Peer-Reviewed Conference Articles (monitored by Scopus)

(Scopus bazasiga kiruvchi chuqur tahrirlangan konferensiya tezislari)

B1.

C. PEER-REVIEWED OTHER INTERNATIONAL JOURNAL ARTICLES

(Chuqur tahrirlanadigan boshqa xalqaro jurnallardagi maqolalari)

- C1.** Zaitov A. (2002) The density and cellularity of the spaces of signed measures and probability measures. *Methods of functional analysis and topology.* Volume 8. Issue 3. Pages 85-89.
- C2.** Zaitov A. (2003) On categorical properties of the functor of order-preserving functionals. *Methods of functional analysis and topology.* Volume 9. Number 4. Pages 357-364.
- C3.** Zaitov A. (2005) On monad of order-preserving functionals. *Methods of functional analysis and topology.* Vol. 11. No. 3. P. 206-209.
- C4.** Albeverio S., Ayupov Sh.A. Ruziev J.E., Zaitov A. (2009) Algebras of unbounded operators over the ring of measurable functions and their derivations and automorphisms. *Methods of Functional Analysis and Topology.* Vol. 15. No. 2. P. 177-187.
- C5.** Zaitov A.A. Jiemuratov R.E. (2009) On the real completeness of the space of weakly additive σ -smooth functionals. *Vladikavkaz mathematical journal.* Volume 11. Issue 1. Page 22-28.
- C6.** Madirimov M., Zaitov A. (2010) Inverse spectra of $AR(\mathcal{M}G)$ -spaces. *Bulletin of the Kyrgyz-Russian-Slavic University.* Volume 10. Issue 9. Page 18-20.
- C7.** Zaitov A.A. (2019) “Order-Preserving Variants of The Basic Principles of Functional Analysis”, *Fundamental Journal of Mathematics and Application*, №2(1), pp. 10-17.
- C8.** Zaitov A.A., Beshimova D.R., Jumaev D.I. (2022). “ On a metric on a hyperspace”, *Herald of institute mathematics of the national academy of sciences of the Kyrgyz Republic*, pp-27-34. <https://doi.org/10.52448/16948173-2022-1>.
- C9.** Zaitov A.A., Karimov S., “On the spaces of τ -smooth probability measures on the m-bounded spaces”, *Bulletin of the Institute of Mathematics.* 2023, Vol. 6, No 3, pp. 42-47.

D. PEER REVIEWED NATIONAL JOURNAL ARTICLES

(Chuqur tahrirlanadigan respublika jurnallardagi maqolalari)

- D1.** Zaitov A.A. (2000) Some properties of weak additive functionals and signed measures. *Uzbek Mathematical Journal*. Issue 5-6. Pages. 21-25.
- D2.** Zaitov A.A. Suslin number of unit ball of signed measures. *Uzbek Mathematical Journal*. Issue 3-4. Pages 14-18.
- D3.** Zaitov A.A. (2005) On continuity of order-preserving functionals. *Reports of the Uzbek Academy of Sciences*, Issue 5. Pages 3-7.
- D4.** Ayupov Sh.A., Ruziev J.E., Zaitov A.A. (2006) Derivations and automorphisms of algebras of unbounded operators over the ring of measurable functions. *Uzbek Mathematical Journal*. Issue 1. Pages 28-42.
- D5.** Zaitov A.A., Ishmetov A.Ya., Kholturaev Kh.F. (2018) “On metrizable extensions of metric spaces” *Architecture, Construction and Design*. Special Issue. Pages 166-170.
- D6.** Zaitov A.A., Ishmetov A.Ya. (2018) “On metrizable of the space of idempotent probability measures”, *Architecture, Construction and Design*. Special Issue. Pages 175-178.
- D7.** Madirimov M., Zaitov A. (2021) “Equivariant maps of probability measures space”, *Bulletin of the Institute of Mathematics*. Volume 4. Issue 3. Pages 66-74.
- D8.** Kurbanov Kh., Zaitov A. (2021) “Description of the space of max-plus-semiadditive functionals”, *Bulletin of the Institute of Mathematics*. Volume 4. Issue 2. Pages 53-60.
- D9.** Zaitov A.A., Tagaymurotov A.O. (2022) “On polar of the sets of probability measures and idempotent probability measures”, *Uzbek Mathematical Journal*. Volume 66. Issue 3. Pages 163-175.
- D10.** Zaitov A.A., Kurbanov Kh.X. (2022) “On a normal subgroup of the group of homeomorphisms of the space of semi-additive functionals”, *Uzbek Mathematical Journal*, Volume 66. Issue 4. Pages.182-189.

E. PEER-REVIEWED OTHER INTERNATIONAL CONFERENCE ARTICLES

(Chuqur tahrirlanadigan boshqa xalqaro konferensiyalardagi maqolalari)

- E1.** Zaitov A. (2003). On the functor of order-preserving functionals in the category Tychonoff spaces. *International conference “Kolmogorov and contemporary mathematics”*. Abstracts. – Moscow. June 16-21. Pages 868-869.
- E2.** Zaitov A., Kholturaev Kh. (2014) On connection between functors P and I. *International conference Applied and geometrical analysis*. Samarkand, Uzbekistan, September 22-25. Pages 29.
- E3.** Zaitov A., Ishmetov A.Ya. (2017) Functor $I_{\beta}(X)$ lifts onto the category $Metr_{\beta}$. *Abstract of the conference “Problems modern topology and its applications” with foreign participants*. Tashkent state pedagogical university. May 11-12, 2017. P. 108-109.
- E4.** A.Zaitov, Kholturaev Kh. (2018) Functor of idempotent probability measures with finite support and metrizable of compacta. *International scientific conference «Algebraic and geometric methods of analysis»*. Book of abstracts. May 30 – June 4. Odesa, Ukraine. Pages 100-101.
- E5.** Sh.Ayupov, A.Zaitov.(2021) On the norm-metric on the space of idempotent probability measures. *International Conference “Problems of Modern Mathematics and its Applications”*. June 15-19. Bishkek, Kyrgyz Republic. Pages 12.
- E6.** Jumaev D., Zaitov A. (2021) A topological transformation group of a hyperspace. *Algebraic and Geometric Methods of Analysis, International Online Conference*. May 25-28. Odesa, Ukraine. Pages 58-60.

F. PEER-REVIEWED NATIONAL CONFERENCE ARTICLES

(Chuqur tahrirlanadigan respublika konferensiyalardagi maqolalari)

- F1.** Zaitov A.A. (2019). Statistical metric spaces. *Abstracts of Conference ‘Modern Problems of Geometry and their Applications’*, NUUZ, Tashkent, November 21-23, Pages 31-32.
- F2.** Zaitov A.A. (2020). g -continuity of maps of g -topological spaces. *Abstracts of Conference "Theory of functions of single and multiple variables"*, November, 26-28, Nukus city. pages 39-42.

F3. A. Zaitov, R. E. Jiemuratov.(2021) The space of order-preserving functionals and gauges. *Proceedings of scientific conference “Actual problems of stochastic analysis”*. February 20-21, 2021, Tashkent. Part I. P. 236-238.

F4. Jumaev D.I., Zaitov A.A. (2022) Dugunji compacta and topological transformation group of of the space of probability measures. *Abstracts of International Conference Contemporary problems of applied mathematics and information technologies*, Bukhara, May, 11-12. Pages 117-118.

F5. Zaitov A.A, Karimov S.Ya. (2023) On the weak density of t-bounded spaces. *Modern problems of analysis Materials of the republican scientific conference*. Qarshi, June 2-3. Pages 265-266.

G. BOOKS / TEXT BOOKS (darslik / o‘quv qo‘llanma)

G1. Zatiyov A.A. Elements of Differential Calculus (2019) Tashkent, Press House of TSPU (in Russian) – 131 p.

G2. Zatiyov A.A. Elements of Linear Algebra and Analytical Geometry (2013, 2020) Tashkent, Press House of TIACE (in Russian) – 150 p.

G3. Zatiyov A.A., Ishmetov A.Ya. Mathematics 1 (2022) Tashkent, Press House “Mahalla va oila” (in Uzbek) – 227 p.

G4. Zaitov A. va boshq., “10-sinf. Algebra va analiz asoslari”, Toshkent Respublika ta’lim markazi. “PRINTUZ” MChJ bosmaxonasi, 2022 yil, 192 b.

G5. Zatiyov A.A., Ishmetov A.Ya. Mathematics 2 (2022) Tashkent, Press House “Mahalla va oila” (in Uzbek) – 240 p.

I. BOOK CHAPTERS (darslik boblari)

I1.

J. MONOGRAPHS / RESEARCH REPORTS (monografiyalar / ilmiy tadqiqot hisobotlari)

J1.

CITATIONS		h-index
Scopus:	48	5
Google Scholar:	44	4

FUNDED RESEARCH PROJECTS

(ilmiy loyihalarda ishtiroki (maosh olganligi))

1. Project funded by Fund of Fundamental Researches. “Operator algebras and their applications” Term: Noverber, 2003 – December, 2004 (Investigator)

2. Project funded by Fund of Academy of Sciences of Uzbekistan. “ τ -smooth order-preserving functiounals” Term: January, 2005 – December, 2006 (Principal Investigator)

3. Project funded by Fund of Fundamental Researches. FA-F1-F011 “Creation of theoretical foundations, methods of optimal control of the regulation of living systems and tools of information technologies” Term: October, 2008 – November, 2010 (Investigator)

GRADUATE RESEARCH SUPERVISIONS / ADVISING

(Ilmiy rahbar / maslahatchi bo‘lganligi)

DOCTORAL (Ph.D.) Mathematics

(doktorantlarga rahbarligi, fan sohasi)

1. A. Ya. Ishmetov, Tashkent Institute of Architecture and Civil Engineering, “Geometric and topological properties of space of idempotent probabilistic measures on topological spaces”, National University of Uzbekistan, November, 2020.

<p>2. Kh. F. Kholduraev, Tashkent Institute of Architecture and Civil Engineering, “Infinite iteration of the functor of idempotent probability measures”, National University of Uzbekistan, December, 2022.</p>
<p>MASTER’S (M.Sc.) Mathematics (Magistrlarga rahbarlik, fan sohasi)</p>
<p>1. Sh. Ergasheva. Tashkent State Pedagogical University, 2008. 2. U. Nuraliev, Chirchik State Pedagogical Institute, 2020. 3. H. Absoatova, Chirchik State Pedagogical Institute, 2021. 4. Q. Atabaeva, Nukus State Pedagogical Institute, 2022. 5. I. Xaydarova, Nukus State Pedagogical Institute, 2022. 6. A. Madreymova, Nukus State Pedagogical Institute, 2022. 7. M. Saidov, Bukhara State University, 2023. 8. R. Ro‘zimurodov, Bukhara State University, 2023. 9. D. Bozorova, Bukhara State University, 2023.</p>
<p>COURSES TAUGHT (o‘qitadigan darslari)</p>
<p>UNDERGRADUATE (bakalavr talabalariga)</p>
<p>1. Higher Mathematics 2. Mathematical Analysis</p>
<p>GRADUATE (magistr talabalariga)</p>
<p>1. Geometry 2. Functional analysis</p>
<p>PROFESSIONAL SERVICES (malakali xizmatlar)</p>
<p>EDITORSHIP AND EDITORIAL BOARD MEMBERSHIP IN INTERNATIONAL REFEREED JOURNALS (xalqaro retsenziyalanadigan jurnallarda tahririyat a‘zoliqi)</p>
<p>1. Editorial Board Member, <i>Uzbek Mathematical Journal</i>. ISSN (print): 2020-7269, October, 2015 – Present. 2. Reviewer Board Member (USA), <i>Mathematics and Statistics</i>, 2020 – Present.</p>
<p>REFEREE IN INTERNATIONAL JOURNALS (Xalqaro jurlarda taqrizchiligi)</p>
<p>- Turkic World Mathematical Society Journal of Pure Applied Mathematics, - Eurasian Mathematical Journal, Bulletin of National University of Uzbekistan</p>
<p>SCIENTIFIC COMMITTEE MEMBERSHIP IN NATIONAL AND INTERNATIONAL CONFERENCES (Respublika va xalqaro miqyosidagi konferensiyalarda tahrir hay‘ati a‘zoliqi)</p>
<p>1. International Scientific Conference “Problems of Contemporary topology and their Applications”, Tashkent, May 20 – 24, 2013 2. Republican Conference “Actual problems of Mathematics and Applied Mathematics in Globalization Period”, Tashkent, June, 1 – 2, 2021 3. International Scientific Conference "Problems of Modern Mathematics", Bishkek, Kyrgyz Republic, June, 15 – 19, 2021</p>
<p>PROFESSIONAL HONORS, PRIZES AND FELLOWSHIPS (Mukofotlari, davlat stipendiyalari va boshqa ilmiy yutuqlari)</p>
<p>1. Winner of the state scholarship of the President of Uzbekistan, 1994 - 1995.</p>

2. Prize-winner of the Academy of Sciences of the Republic of Uzbekistan, 2004.
3. Professor Emeritus of Kyrgyz National University named after Jusup Balasagyn 2019.

ASSOCIATIONS/AFFILIATIONS

(Ilmiy jamiyatlarga a'zoligi)

1. Uzbek Mathematical Society (October 2004 – Present)
2. American Mathematical Society (January 2010 – Present)