



**Abdimumin  
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**Date of birth:**  
14/09/1974

**Nationality:** Uzbek  
**Gender:** Male

## CONTACT

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## WORK EXPERIENCE

**01/09/1995–14/04/1999 teacher**

**School 15**

Bandixan town, Surxandarya region, Uzbekistan

**01/10/1999–25/08/2007 teacher**

**School 32**

Baysun town, Surxandarya region, Uzbekistan

**30/08/2007 – 26/01/2015 teacher**

**Baysun College of Construction and Economy**

Baysun town, Surxandarya region, Uzbekistan

**28/01/2019 – 05/01/2022 teacher**

**Termiz State University**

Barkamol avlod, Termiz city, Surxandarya region, Uzbekistan

**05/01/2022 – 29/12/2024**

**Researcher at the V.I. Romanovskiy Institute of Mathematics of the Academy of Sciences of Uzbekistan.**

University str.9, Almazar district, Tashkent 700095, Uzbekistan

**03/01/2025 – 30/06/2026 teacher**

**Department of Higher Mathematics**

Tashkent State Technical University

University str. 2A, Almazar district, Tashkent 700095, Uzbekistan

## EDUCATION AND TRAINING

**02/09/1993 – 24/06/1998 – Termiz city, Uzbekistan**

**Bachelor degree (Mathematic)**

Termiz State University

**Field(s) of study**

General

- Mathematics, Mathematical Analysis, Differential Equations, Probability Theory, Algebra

- Geometry, Analytic Geometry

**05/01/2022 – 24/12/2024 – Tashkent city, Uzbekistan**

**PhD (Researcher)**

V.I. Romanovskiy Institute of Mathematics of the Academy of Sciences of Uzbekistan.

**Field(s) of study**

General

- Mathematics, Mathematical Analysis, Differential Equations, Probability Theory, Algebra

- Computational Mathematics, Functional Analysis, Equations of Mathematical Physics

## LANGUAGE SKILLS

MOTHER TONGUE(S): Uzbek

OTHER LANGUAGE(S):

English

|                 |               |                            |                             |               |
|-----------------|---------------|----------------------------|-----------------------------|---------------|
| Listening<br>B2 | Reading<br>B2 | Spoken<br>production<br>B2 | Spoken<br>interaction<br>B2 | Writing<br>B2 |
|-----------------|---------------|----------------------------|-----------------------------|---------------|

Russian

|                 |               |                            |                             |               |
|-----------------|---------------|----------------------------|-----------------------------|---------------|
| Listening<br>C1 | Reading<br>C1 | Spoken<br>production<br>C1 | Spoken<br>interaction<br>C1 | Writing<br>C1 |
|-----------------|---------------|----------------------------|-----------------------------|---------------|

## COMMUNICATION AND INTERPERSONAL SKILLS

### Teamwork and collaboration

Friendliness

- Confidence
- Empathy
- Open-Mindedness
- Respective

## MANAGEMENT AND LEADERSHIP SKILLS

### Manager

Currently, manage the school team of more than 100 peopleLeadership

Problem-solving

Possess strong commitment to team environment dynamics with the ability to contribute expertise and follow leadership directives at appropriate times

Thrive in a team environment and work well with others Enjoy working as a team member as well as independently Team leader and team player

## DIGITAL SKILLS

### My Digital Skills

SELF-ASSESSMENT / Microsoft Office, Maple, MathCad, Python

## PUBLICATIONS

### List of scientific articles

1. Boltaev N. D, **Kurbonnazarov A. I.** Construction of optimal quadrature formula for the Fourier coefficients. // Problems of computational and applied mathematics, Tashkent, 2022, № 5/1(44), pp. 43-53.
2. Kurbonnazarov A. I. Properties of the discrete analogue of the differential operator. Problems of computational and applied mathematics, Tashkent, 2023, № 3/1(50), pp. 20–29.
3. Hayotov A.R., Kurbonnazarov A. I. An optimal quadrature formula for the approximate calculation of Fourier integrals in the space  $K(0,1)$ . // Problems of computational and applied mathematics, Tashkent, 2023, (№ 3/1(50), pp. 183–196.
4. Hayotov A.R., **Kurbonnazarov A.I.**, Polvonov S. Numerical integration of Fourier integrals by the optimal quadrature formula exact for hyperbolic functions. // AIP Conf. Proc. 3004, 060039, <https://doi.org/10.1063/5.0199915>, 2024, pp. 1-9.
5. **Курбонназаров А.И.** Оптимальная квадратурная формула для вычисления коэффициентов Фурье в гильбертовом пространстве. // Проблемы вычислительной и прикладной математики, Ташкент, 2024, №4/1(59), -С. 46–63.
6. Hayotov A. R, Babaev S.S., **Kurbonnazarov A. I.** Optimization of approximate integrals of rapidly oscillating functions in the Hilbert space.// Results in Applied Mathematics, 2025, pp. 1-15. (3. Scopus, **IF=1,57**)
7. **Qurbonnazarov A.I.**  $K_2(P_2)$  fazosida optimal kvadratur formula qurish. // “Amaliy matematika va axborot texnologiyalarining zamonaviy muammolari” Xalqaro ilmiy – amaliy anjuman materiallari, Buxoro, 11-12 May, 2022, 282 – 283 betlar.
8. Boltaev N.D, **Qurbonnazarov A.I.** Furiye integrallarini taqribiy hisoblash uchun giperbolik funksiyalarga aniq optimal kvadratur formulalar. // “Hisoblash modellari va texnologiyalari”, O‘zbekiston–Malayziya xalqaro konferensiyasi tezislari. Tashkent, 16-17 sentabr, 2022, 26-27 betlar.
9. **Курбонназаров А.И.**, Аминов М.Ш. Оптимальная квадратурная формула в пространстве  $K_2(P_m)$ . // “Актуальные вопросы алгебры и анализа” сборник материалов республиканской научно-практической конференции, Термиз, часть 1, 18-19 ноября 2022 года, -С. 275-277.
10. Хаётов А., **Курбонназаров А.** Оптимальная квадратурная формула для приближенного вычисления интегралов Фурье. // “Математический анализ и его приложения в современной математической физике” тезисы международной конференции, сентябрь 23-24, 2022; Самарканд. -С. 43-44.
11. **Kurbonnazarov A.I.** Properties of the discrete analogue of the differential operator. // International scientific and practical conference “Abstracts actual problems of mathematical modeling and information technology”, Nukus 2-3 may, 2023, pp. 85-86.
12. **Qurbonnazarov A.I.** Furiye integrallarini taqribiy hisoblash uchun optimal kvadratur formula. // “Analizning zamonaviy muammolari” Respublika ilmiy anjumani materiallari. Qarshi, 2-3 iyun 2023 yil, 309-311 betlar.
13. Hayotov A.R., **Kurbonnazarov A.I.** An optimal quadrature formula for the approximate calculation of Fourier integrals in the space  $K_2^{(3)}(0,1)$ . // Abstracts of the 8th international conference “Actual problems of applied mathematics and information technologies-Al-Khwarizmi 2023”, september 25-26, 2023, p. 148.
14. Hayotov A.R., **Kurbonnazarov A.I.** An optimal quadrature formula in the space  $K_2^{(m)}$ . // TWMS Congress-2023 “VII World Congress of Turkic World Mathematicians”, september 20-23, 2023, p. 386.
15. **Kurbonnazarov A.I.**, Boltayev N.D. Hilbert fazosida Furiye koeffitsiyentlarini hisoblash uchun giperbolik funksiyalarga aniq optimal kvadratur formula. // “Hisoblash modellari va texnologiyalari” (CMT2024), professor M.I. Isroilov tavalludining 90 yilligiga bag‘ishlangan uchinchi xalqaro seminar, Toshkent, 27 aprel 2024, 41-42 betlar.
16. Hayotov A.R., **Kurbonnazarov A.I.** Optimization of approximate integration of rapidly oscillating functions in space  $K_2^{(3)}(0,1)$ . // International Scientific and Practical Conference “Modern Problems of Mathematics and Its Teaching” 21-22 june, Xujand, 2024, pp. 150-153.
17. Hayotov A.R., **Kurbonnazarov A.I.** An optimal quadrature formula for the approximate calculation of Fourier integrals in the space  $K_2^{(3)}(0,1)$ . // Abstracts of the 9th international conference “Actual problems of applied mathematics and information technologies” - Al-Khwarizmi october 22-23, 2024, Samarkand, pp. 112.
18. Hayotov A.R., **Kurbonnazarov A.I.** An optimal quadrature formula for numerical integration of oscillating functions in a Hilbert space. // International Scientific Conference Dedicated to the 90th Anniversary of the Birth of Academician T. D. Djuraev “Nonclassical Equations of Mathematical Physics and Their Applications”, Tashkent, 24-26 october 2024, p. 77.
19. Hayotov A.R., **Kurbonnazarov A.I.** Optimal kvadratur formuladan foydalangan holda teskari proyeksiya usulida tasvirni taqribiy tiklash. // “Yashil taraqqiyot: barqaror kelajak uchun yechimlar” mavzusidagi respublika ilmiy-amaliy konferensiyasi tezislari to‘plami, Toshkent 16-aprel 2025 yil, pp. 662-667.
20. Hayotov A.R., **Kurbonnazarov A.I.** An optimal formula for numerical calculation of Fourier integrals. // Abstracts of the Republican Scientific Conference on “Modern problems of differential equations and related branches of mathematics”, Fergana, May 16-17, 2025, p. 146.
21. Hayotov A.R., **Kurbonnazarov A.I.**, Turaboyev B. U. Application of the optimal quadrature formula constructed in Hilbert space to image reconstruction in computed tomography. // Republican Scientific Conference with the Participation of Foreign Scholars Dedicated to the 110th Anniversary of the Birth of Academician T. A. Sarimsoqov “Modern problems of mathematics and its applications”, Tashkent, September 10-11, 2025, pp 297-298.
22. Hayotov A.R., **Qurbonnazarov A.I.** Tez tebranuvchi funksiyalarni taqribiy integrallashning optimizatsiyasi va uning tadbiqu // O‘zbekiston Respublikasi Adliya Vazirligi huzuridagi Intelektual mulk agentligi, № DGU 46504, 27.12.2024.