Karim Raximov

CURRICULUM VITAE · PhD, DSc

V. I. Romanovskiy nomidagi Matematika instituti, O‘zbekiston Fanlar akademiyasi

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ILMIY QIZIQISHLAR

Kompleks dinamika; pluripotensiallar nazariyasi; kompleks analiz; ergodiklik nazariyasi; golomorf va polinomial-tipdagi akslantirishlar; Green oqimlari; Riman sirtlaridagi meromorfik bog‘lanishlar; arifmetik to‘plamlarning sig‘imi va Hausdorff o‘lchovlari.

ILMIY VA PEDAGOGIK FAOLIYAT

02/2024 — hozir
Yetakchi ilmiy xodim
V. I. Romanovskiy nomidagi Matematika instituti, O‘zbekiston Fanlar akademiyasi

Hozir
Dotsent
Mirzo Ulug‘bek nomidagi O‘zbekiston Milliy universiteti

2023 — 2024
Ilmiy xodim
Singapur Milliy universiteti

2022 — 2023
Dotsent
O‘zbekiston Milliy universiteti

2020 — 2022
Postdoktoral tadqiqotchi
CNRS · Lill universiteti, Fransiya

2019 — 2020
O‘qituvchi
O‘zbekiston Milliy universiteti

2012 — 2016
O‘qituvchi
O‘zbekiston Milliy universiteti

TA’LIM

2016 — 2020
PhD, matematika
Pisa universiteti, Italiya
Ilmiy rahbar: professor Marco Abate. Dissertatsiya: “Dynamics of geodesics for meromorphic connections on Riemann surfaces”. Himoya: 20-mart 2020.

2010 — 2012
Magistratura, matematika
O‘zbekiston Milliy universiteti
Ilmiy rahbar: professor Azimbay Sadullaev. Mavzu: plurisubgarmonik funksiyalar asosida aniqlangan $\mathbb{C}^n$-sig‘im.

2006 — 2010
Bakalavriat, matematika
Navoiy davlat pedagogika instituti
Ilmiy rahbar: professor Sevdiyor Imomkulov.

Ilmiy nashrlar

Chop etilgan ishlar · 1–10

1. Fabrizio Bianchi, Tien-Cuong Dinh, Karim Rakhimov.
Hölder continuity and laminarity of the Green currents for Hénon-like maps
Journal of the Institute of Mathematics of Jussieu 25(2), 1363–1392 (2026).
DOI: 10.1017/S1474748025101588

2. Nurali Akramov, Karim Rakhimov.
Capacity Dimension of the Brjuno Set in $\mathbb{C}^n$
Complex Analysis and Operator Theory 20(5), maqola 120 (2026).
DOI: 10.1007/s11785-026-01970-0

3. Marco Abate, Karim Rakhimov.
Dynamics of Fuchsian meromorphic connections with real periods
Annals of Global Analysis and Geometry 69, maqola 9 (2026).
DOI: 10.1007/s10455-026-10033-8

4. Karim Rakhimov.
Flat structure of meromorphic connections on Riemann surfaces
Journal of Geometric Analysis 35, maqola 368 (2025).
DOI: 10.1007/s12220-025-02190-2

5. Sardor Bazarbaev, Fabrizio Bianchi, Karim Rakhimov.
On the support of measures of large entropy for polynomial-like maps
Analysis and Mathematical Physics 15, maqola 69 (2025).
DOI: 10.1007/s13324-025-01071-9

6. Kobiljon Kuldoshev, Karim Rakhimov.
On the Hölder continuity of weighted m-extremal functions
Journal of Siberian Federal University. Mathematics & Physics 18(6), 809–818 (2025).

7. Karim Rakhimov, Kobiljon Kuldoshev.
Hölder continuity of a weighted m-Green function and weighted m-subharmonic measure
Reports of the Academy of Sciences of the Republic of Uzbekistan, no. 5, 21–25 (2025).

8. Karim Rakhimov, Nurali Akramov.
On the capacity dimension of non-linearizability loci in $\mathbb{C}^n$
Reports of the Academy of Sciences of the Republic of Uzbekistan, no. 6 (2025).

9. Fabrizio Bianchi, Tien-Cuong Dinh, Karim Rakhimov.
Monotonicity of dynamical degrees for Hénon-like and polynomial-like maps
Transactions of the American Mathematical Society 377(9), 6595–6618 (2024).
DOI: 10.1090/tran/9225

10. Fabrizio Bianchi, Karim Rakhimov.
Strong probabilistic stability in holomorphic families of endomorphisms of $\mathbb{P}^k(\mathbb{C})$ and polynomial-like maps
International Mathematics Research Notices 2024(12), 9875–9892 (2024).
DOI: 10.1093/imrn/rnae081

Ilmiy nashrlar — davom

11. Karim Rakhimov, Shomurod Shopulatov.
A mean value criterion for plurisubharmonic functions
Complex Variables and Elliptic Equations 67(12), 2866–2877 (2022).
DOI: 10.1080/17476933.2021.1954623

12. Karim Rakhimov.
Capacity dimension of the Perez–Marco set
Topics in Several Complex Variables, Contemporary Mathematics 662, 131–137 (2016).
DOI: 10.1090/conm/662/13323

13. Azimbay Sadullaev, Karim Rakhimov.
Capacity dimension of the Brjuno set
Indiana University Mathematics Journal 64(6), 1829–1834 (2015).
DOI: 10.1512/iumj.2015.64.5690

14. A. S. Sadullaev, S. A. Imomkulov, K. Kh. Rakhimov.
Bounded subharmonic functions possess the Lebesgue property at each point
Mathematical Notes 96(6), 992–995 (2014).
DOI: 10.1134/S0001434614110388

15. Karim Rakhimov.
$\mathbb{C}^n$-capacity defined with the Laplacian
Uzbek Mathematical Journal, no. 2, 99–105 (2012). *Rus tilida.*

16. Karim Rakhimov.
$\mathbb{C}^n$-capacity based on plurisubharmonic functions
Reports of the Academy of Sciences of the Republic of Uzbekistan, no. 4, 6–9 (2012). *Rus tilida.*

NASHRGA QABUL QILINGAN

A1. Maxence Brévard, Karim Rakhimov.
Propagation of equilibrium states in stable families of endomorphisms of $\mathbb{P}^k(\mathbb{C})$
Rivista di Matematica della Università di Parma · Nashrga qabul qilingan.
arXiv:2405.12033

PREPRINTLAR

P1. Davrbek Oltiboev, Karim Rakhimov, Marks Ruziboev.
Linear response for random systems with a cusp
arXiv:2608.26969 (2026).

P2. Sardor Bazarbaev, Karim Rakhimov.
Exact logarithmic Hausdorff and capacity exponents of the non-Brjuno set
arXiv:2608.29779 (2026).

P3. Fabrizio Bianchi, Sobir Boymurodov, Karim Rakhimov.
On the support of measures of large entropy for automorphisms of Kähler manifolds
arXiv:2606.08746 (2026).

Ilmiy hamjamiyat va ta’lim

ILMIY HAMJAMIYAT VA TA’LIM

2025 — hozir	**Sadullayev olimpiadasi** Universitet talabalari uchun olimpiada asoschisi va tashkilotchisi.
2024 — hozir	**π olimpiadasi** Universitet talabalari uchun haftalik olimpiada tashkilotchisi.
2024 — hozir	**Maxsus kurslar** Yosh tadqiqotchilar uchun kurslar dasturining hamtashkilotchisi.
2022 — hozir	**Sadullayev seminari** “Kompleks analizning zamonaviy muammolari” seminarining hamtashkilotchisi.
2020	**IMC** Universitet talabalari xalqaro matematika musobaqasi hakami va jamoa rahbari.
2018	**Al-Xorazmiy xalqaro olimpiadasi** Hakamlar hay’ati raisining o‘rinbosari.
2016 / 2015	**SEEMOUS / IMC** Hakam va O‘zbekiston Milliy universiteti jamoasi rahbari.

ILMIY RAHBARLIK

Kobiljon Kuldoshev, Sardor Bazarbaev, Nurali Akramov, Sobir Boymurodov, Davrbek Oltiboyev.

KITOBLAR VA O‘QUV MATERIALLARI

UZSML & Nabla Olimpiadalari. A. Pirnapasov, Kh. Egamberganov, K. Rakhimov. KAX, 2020. O‘zbek tilida.

Analizning nostandart masalalari. A. Azizov, K. Rakhimov. KAX, 2021. O‘zbek tilida; qo‘lyozma.

DARSLAR VA LOYIHALAR

Kompleks analiz, ergodiklik nazariyasi va kompleks dinamik sistemalar bo‘yicha darslar. Universitet olimpiadalariga tayyorgarlik. Isbot — matematika kitoblari, mashqlar va testlar uchun ta’lim loyihasi.

TILLAR

O‘zbek, ingliz, rus va tojik tillari; turk va italyan tillarida ishchi bilim.

Google Scholar · ORCID · Telegram