Prof. Dr. Tayyab Kamran

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Quaid-i-Azam University
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Education

- **Ph.D.** (Pure Math, April 2005), School of Mathematics, University of Manchester, United Kingdom. Thesis Title: THE UNRAMIFIED UNITARY PRINCIPAL SERIES OF S*L*(*N*): *C**-ALGEBRAS AND K-THEORY
- **M.Phil.** (Pure Math, 1998, GPA4.7 (90%)), Quaid-I-Azam University, Islamabad-Pakistan. Dissertation Title: FIXED POINTS AND *R*-WEAKLY COMMUTING MAPS
- **M.Sc.** (Mathematics, 1992, GPA 3.9(79%)), Quaid-I-Azam University, Islamabad-Pakistan.
- **B.Sc**. (Mathematics, Physics, 1989, 72%), Punjab University, Lahore-Pakistan.

Awards/Honors

- Abdus Salam Prize for achievements in sciences, Mathematics 2007, awarded in April 2009.
- OSS award (Overseas Research Scholarship) by University of Manchester
- 1st Position in MPhil (in the faculty of natural sciences).
- Ministry of Education Scholarship during MPhil studies.
- Merit scholarship in MSc from Quaid-i-Azam University.

Teaching Experience:

- 17 December 2018 – to date **Tenured Professor**, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.
- 01 October 2012 – 16 December 2018 **Associate Professor (TTS)**, Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.
- 17 Jan 2012 – 30 Sep 2012 **Associate Professor**, Centre for advanced Mathematics and Physics, National University of Science and Technology, Islamabad, Pakistan.
- 13 July 2005 – 16 Jan 2012 **Assistant Professor**, Centre for advanced Mathematics and Physics, National University of Science and Technology, Islamabad, Pakistan.
- September 2001 - September 2004 **Demonstrator**, Department of Mathematics, University of Manchester.
- September 1999 - August 2001 **Lecturer**, Mohammed Ali Jinnah University, Islamabad.

Courses Taught

Courses taught during BS, M.Phil. and Ph.D. includes Functional Analysis, Real Analysis, Complex Analysis, Measure Theory, Fixed Point Theory, Banach Algebras, C*-Algebras and Topological Vector Spaces.

Research Specialty

Research Interest includes Metric Fixed Point Theory, Fractals Theory, Fractional Calculus, K-Theory for Operator Algebras.

PhD Thesis Supervised

[11] Iqra Shireen, "Fixed Point Theorems in Generalized Space, 2025.

[10] Muhammad Shahbaz, Compactness, Connectedness and related topics in Generalized Topological Spaces, 2025.

[9] Nausheen Razi, Generalized Fractional Mathematical Modeling and Simulation for Dynamical Systems, 2025.

[8] Misbah Farheen, Best Proximity Points of Contraction Type Operators in Metric and Metric-Like Spaces, 2022.

[7] Nosheen, Periodic Points for Various Mappings in Generalized Gauge Type Metric Spaces, 2022.

[6] Fahimuddin, Fixed Point Theorems for Contractive Type Mappings in Distance Spaces, 2018.

[5] Afshan Batool, Some fixed-point theorems for contractive type mappings, August 2016.

[4] Samina Batool, Fixed Point Theorems in Operator-Valued Metric Spaces, 2016.

[3] Dure Shehwar, C* -Valued G-Contraction and Fixed Point, 2016.

[2] Maria Samreen, Fixed Point Theorems for Banach G- type Contractions, May 2014.

[1] Quanita Kiran, Some generalizations of Banach fixed point Theorem: Single valued and Multivalued, October 2010.

MPhil Thesis Supervised

[42] Aqeel Ahmed, Analysis of Biological Data Mining System Based on Fuzzy Clustering, 2025

[41] Gulrukh, Fixed Point Results in Generalized Extended Fuzzy B- Metric Spaces, 2025.

[40] Rabia Bibi, Fixed Point Results in Cone m-Hemi Metric Spaces, 2025.

[39] Zainab Bibi, Fixed Point Theorems in New Controlled Type Metric Spaces, 2025.

[38] Hamza Khan, Fixed Point Theorems for Multivalued Mappings in V-Generalized Metric Spaces, 2025.

[37] Ibrar Hussain, Mizoguzhi and Takahashis Fixed Point Theorem in V-Generalized Metric Spaces, 2025.

[36] Ateeqa Ahmed, Graphs Associated with Lie Algebras, 2025.

[35] Muhammad Afaq Khan, Weak Notions of open and closed Sets in Fuzzy Topological Spaces, 2024.

[34] Salika Yousaf, Model Reduction Techniques in Chemical Kinetics and their Applications, 2024.

[33] Asmat Ullah, Fixed Point Theorems in Generalized B-Metric Spaces, 2024.

[32] Babar Ali, Fixed Point Theorems in Generalized Intuitionistic Fuzzy Metric Spaces, 2024.

[31] Muhammad Amer Shahzad, Fixed Points of Contraction Mappings on Metric Spaces Endowed with Graph, 2024.

[30] Zakria Silani, Unconditional Basis of Banach Spaces, 2023.

[29] Adnan Shafqat, Discontinuity and Fixed Pints of Mappings, 2022.

[28] Muhammad Jawad, Fixed Point Theorems for G-Contractions, 2022.

[27] Arsalan, Fixed Points and Measure of Non-Compactness, 2022

[26] Muhammad Faislal Saleh, Fixed Point Theorems in Preordered Metric Spaces, 2022

[25] Muhammad Sajid, 2022.

[24] Laiba Qureshi, Some p-adic Special Functions 2019.

[23] Muhammad Khan, Fixed Point Theorems for Metric Like Spaces, 2019.

[22] Arooj Bano, Aspects of Fractional Calculus, 2018.

[21] Abdul Waheed, Optimization Techniques using Non-Convex Functions, 2018.

[20] Bakhtiar Ahmed, Facets of Affine Group Schemes, 2018.

[19] Muhammad Asim Bilal, Fixed Point Theorem in Discrete Spaces, 2018.

[18] Adil Siddique. Fixed Point Theorems Concerning Measures of Noncompactness, 2018.

[17] Jawad Ali, Operators Algebras and related Topics, 2016.

[16] Amina Tasneem, Fixed point theorems in partially ordered metric spaces, 2016.

[15] Anum Tariq, Metric type spaces, 2016.

[14] Qurat-ul-Ain, Fixed point theorems in fuzzy metric spaces, 2016.

[13] Sidra Qamar, Fixed point theorems for contractive type mapping, 2016.

[12] Abdullah Naeem Malik, Operator algebras and the foundations of Quantum Mechanics, 2016.

[11] Rabia Yaquab, Covering mappings and fixed points in metric spaces, 2015.

[10] Waheed Ahmed Khan, Fixed point theorems in metric like spaces, 2015.

[9] Muhammad Ali Raza, Generalized G-Presic operators, 2015.

[8] Asia Rahim, Fixed point theorems for Meir-Keeler type contractions, 2015.

[7] Suleman Ahmed, Multi-valued weakly Picard operators, 2015.

[6]] Mehwish Waheed, Multi-valued G-contractions, 2015.

[5] Sharafat Hussain, Some fixed point theorems for multi-valued mappings, 2014.

[4] Sadaf Sultan, Some fixed point theorems for multi-valued mappings, Oct, 2013.

[3] Muhammad Usman Ali, Some fixed point theorems for single-valued and multi-valued mappings, June 2013.

[2] Saqib Mohammod, Fixed points of contractions, January 2013.

[1] Maria Athar, Fixed point theorems for mappings on a metric space endowed with a graph, April 2010.

Publications

2025

[99] Shereen I, Bano A, Kamran T, Ishtiaq U, Argyros IK. Certain Fixed Point Results for (α-F)-Contraction in New Controlled S-Metric Type Spaces. Contemporary Mathematics. 2025 Oct 10:7336-56.

[98] Applying fractional calculus to malware spread: A fractal-based approach to threat analysis N Razi, MB Riaz, A Bano, T Kamran, U Ishtiaq, A Shafiq PloS one 20 (1), e0313914.

[97] Nisa ZU, Ishtiaq U, Kamran T, Akram M, Popa IL. Analysis of Fast Convergent Iterative Scheme with Fractal Generation. Fractal and Fractional. 2025 Aug 30;9(9):575.

[96] Shahbaz M, Kamran T, Ishtiaq U, Imtiaz M, Popa IL, Maiz FM. Some Categories of Compactness and Connectedness in Generalized Topological Spaces. Axioms. 2025 Feb 18;14(2):141.

[95] Ming W, Asif M, Kamran T, Gavrila DE. MIZOGUCHI-TAKAHASHI TYPE FIXED POINT THEOREM IN MODULAR FUNCTION SPACES. UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS. 2025 Jan 1;87(2):87-96.

[94] Razi N, Bano A, Ishtiaq U, Kamran T, Garayev M, Popa IL. Probing Malware Propagation Model with Variable Infection Rates Under Integer, Fractional, and Fractal–Fractional Orders. Fractal and Fractional. 2025;9(2):90.

2024:

[93] Shahbaz M, Kamran T, Ishtiaq U, Imtiaz M, Popa IL, Maiz FM. Some New Notions of Continuity in Generalized Primal Topological Space. Mathematics. 2024 Dec 19;12(24):3995.

[92] Guo L, Bibi R, Alshejari A, Savas E, Kamran T, Ishtiaq U. Fixed-Point Results for Krasnoselskii, Meir–Keeler, and Boyd–Wong-Type Mappings with Applications to Dynamic Market Equilibrium. Axioms. 2024 Dec 12;13(12):867.

[91] Guo L, Ali B, Alshejari A, Kamran T, Ishtiaq U. On Intuitionistic Fuzzy n-Controlled Metric Spaces with Application in Economics. International Journal of Analysis and Applications. 2024 Dec 9;22:225.

[90] Zikria N, Samreen M, Savas E, Sen MD, Kamran T. Periodic and fixed points for mappings in extended b-gauge spaces equipped with a graph. Demonstratio Mathematica. 2024 Aug 30;57(1):20240016.

[89] Kamran T, Ishtiaq U, Ahmad K, Murtaza G, Argyros I. Certain fixed point results via contraction mappings in neutrosophic semi-metric spaces. Journal of Advances in Applied & Computational Mathematics. 2024 Aug 14;11:30-71.

2022:

[88] Zikria N, Samreen M, Kamran T, Aydi H, Park C. Some periodic and fixed point theorems on quasi-b-gauge spaces. Journal of Inequalities and Applications. 2022 Jan 7;2022(1):13.

[87] Zikria N, Mukheimer A, Samreen M, Kamran T, Aydi H, Abodayeh K. Periodic and fixed points for F-type contractions in b-gauge spaces. AIMS Mathematics. 2022 Jan 1;7(10):18393-415.

[86] Ullah W, Samreen M, Kamran T. Fixed points of mappings on extended cone b-metric space over real Banach algebra. Filomat. 2022 Jan 1;36(3):853-68.

2021:

[85] Misbah Farheen, Tayyab Kamran, Azhar Hussain, "Best Proximity Point Theorems for Single and Multivalued Mappings in Fuzzy Multiplicative Metric Space", Journal of Function Spaces, vol. 2021, Article ID 1373945, 9 pages, 2021.

[84] Nosheen Zikria, Maria Samreen, Tayyab Kamran, Seher Sultan Yeşilkaya, "Periodic and Fixed Points for Caristi-Type -Contractions in Extended -Gauge Spaces", Journal of Function Spaces, vol. 2021, Article ID 1865172, 9 pages, 2021.

2019:

[83] MU Ali, M Farheen, T Kamran, G Maniu, Prešić type nonself operators and related best proximity Results Mathematics 7 (5)(2019), 394.

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2018:

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[75] M Samreen, T Kamran, NONLINEAR α-TYPE CONTRACTIONS ON A SPACE ENDOWED WITH GRAPH, Journal of Mathematical Analysis 9 (1)(2018), 105-115.

[74] A Batool, T Kamran, C Park, JR Lee, Fixed point theorems for generalized hybrid mappings in fuzzy Hilbert spaces, Journal of Computational Analysis and Applications 24 (1)(2018), 161-172.

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[72] MU Ali, T Kamran, W Sintunavarat, Fixed Point Theorems for Multi-valued Mappings with a $$\upphi $$ ϕ Function, Proceedings of the National Academy of Sciences, India Section A: Physical, 88 (2018), 33–39.

[71] A Batool, T Kamran, C Park, Matrix generalized (θ, ϕ)-derivations on matrix Banach algebras Mathematica Slovaca 68 (1)(2018), 153-162.

[70] M Samreen, T Kamran, M Postolache, Extended b-metric space, extended b- comparison function and nonlinear contractions, U. Politeh. Buch. Ser. A 80 (2018), 21-28.

[69] MU Ali, T Kamran, Weak PG-property and best proximity points, Publications de l'Institut Mathematique 104 (118)(2018), 209-216.

[68] Mu Ali, A Bejenaru, T Kamran, The Order-Convergence Of The Thakur Iterative Process For Hardy-Rogers Contractions In Order-Banach Spaces, Journal Of Mathematical Analysis 9 (4)(2018), 61-74.

[67] Mu Ali, Q Kiran, T Kamran, Some Coincidence Point Theorems For Semi-Nonself Hybrid Pair With Error Estimates Of F-Picard Sequences, University Politehnica of Bucharest Scientific Bulletin-Series A-Applied, 80(2)(2018), 41-50.

[66] MU Ali, T Kamran, W Kassab, Solution of a Fractional Order Integral Equation Via Fixed Point Theorem in Pseudo Modular Metric Space, University Politehnica of Bucharest Scientific Bulletin-Series A, Applied, 80(1)(2018), 71-80.

2017:

[65] Kamran T, Ali MU. Common fixed point theorems for a family of multivalued F-contractions with an application to solve a system of integral equations. Glasnik matematički. 2017 Jun 21;52(1):163-77.

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[58] Abdullah Naeem Malik,Tayyab Kamran, Orthomodularity and the incompatibility of relativity and quantum mechanics, (2016). doi:10.1007/s40509-016-0092-8

[57] Muhammad Usman Ali and Tayyab Kamran, Multivalued F-contraction and related fixed point theorems with application, Filomat 30:14 (2016), 3779-3793.

[56] Tayyab Kamran, Vladimir Rakocevic, Mehwish Waheed, Muhammad Usman Ali, Fixed points of multivalued maps via (G,\varphi)-contraction, University Politehnica of Bucharest Scientific Bulletin-Series A- Applied Mathematics and Physics, 78 4 (2016), 189-196.

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[54] Muhammad Usman Ali, Tayyab Kamran and Naseer Shahzad, Fixed points of Mizoguchi-Takahashi's type contraction on metric spaces with a graph, University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics, Vol. 78, Iss. 3 (2016) Pages 131

[53] Muhammad Usman Ali, Tayyab Kamran and Quanita Kiran, Implicit type fixed point theorems for bounded multimaps, University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics Vol. 78, Iss. 3 (2016), Pages 241-252.

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2015:

[48] Muhammad Usman Ali, Tayyab Kamran and Liaqat Ali Khan, A new type of multivalued contraction in Partial Hausdorff Metric Spaces endowed with a Graph, Journal of Inequalities and Applications, 2015, 2015:205.

[47] Quanita Kiran, Muhammad Usman Ali, Tayyab Kamran and Erdal Karapinar, Existence of best proximity points for controlled proximal contraction, Fixed Point Theory and Applications (2015) 2015:207.

[46] Dur-e-Shehwar, Samina Batul, Tayyab Kamran and Adrian Ghiura, Caristis fixed point theorem on C-algebra valued metric spaces, Journal of Nonlinear Science and Applications, 9 (2016), 584-588.

[45] Dur-e-Shehwar and Tayyab Kamran, C^{*}-valued G-contractions and Fixed Points, Journal of Inequalities and Applications (2015) 2015:304.

[44] Muhammad Usman Ali, Tayyab Kamran and Erdal Karapınar, Further discussion on modified multivalued \alpha_{\ast}$-$\psi-$contractive type mapping, Filomat 29:8 (2015), 1893–1900.

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[42] Tayyab Kamran and Sharafat Hussain, Weakly (s, r)-contractive multi-valued operators, Rendiconti del Circolo Matematico di Palermo, 64 (2015), 475–482.

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[34] Muhammad Usman Ali, Tayyab Kamran and Naseer Shahzad, Best Proximity point for (α,ψ) proximal contractive multimaps, Abstract and Applied Analysis, vol. 2014, Article ID 181598, 6 pages, 2014.

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[32] Maria Samreen, Quanita Kiran and Tayyab Kamran, Fixed point theorems for Φ-contractions, Journal of inequalities and applications**,** 2014**,** 2014:266.

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[29] Maria Samreen and Tayyab Kamran, Fixed point theorems for weakly contractive mappings on a metric space endowed with a graph, Filomat, 28 (2014) 441-450.

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[27] Muhammad Ali Usman, Quanita Kiran and Tayyab Kamran, Fixed point theorem for (α,ψ,φ)-contractive mappings on spaces with two metrics, Journal of Advanced Mathematical Studies, 6 (2014), 8-11.

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[26] Muhammad Usman Ali, Tayyab Kamran, Wutiphol Sintunavarat and Phayap Katchang, Mizoguchi and Takahashi's fixed point theorem with α, η functions, Abstract and Applied Analysis, 2013, Article ID 418798, 04 pages, 2013.

[25] Maria Samreen, Tayyab Kamran and Naseer Shahzad, Some Fixed Point Theorems in b-Metric Space Endowed with Graph, Abstract and Applied Analysis, 2013, Article ID 967132, 9 pages, 2013.

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2006-2012:

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2001-2005:

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[3] Tayyab Kamran, Common fixed points of Meir-Keeler type noncompatible mappings, International Journal of Mathematics, Game Theory, and Algebra, 12 (2002) 199-204.
[2] Naseer Shahzad and Tayyab Kamran, Coincidence points and R-weakly commuting maps, Archivum Mathematicum (Brno), 37, Pages 179-183, 2001.
[1] Tayyab Kamran, Common coincidence points of R-weakly commuting maps, International Journal of Mathematics and Mathematical Sciences, 26, 179-182, 2001.

Administrative and managerial assignments

- Worked as the Head of the Mathematics Department, 19 September 2011 to 30 September 2012 at NUST.
- I acted as the Principal of the School of Natural Sciences at NUST from 28 June 2012 to July 28, 2012.
- Participated in the Meeting of the Selection Board of NUST.
- Developed rules and regulations for MPhil/PhD program (in Mathematics) at NUST-CAMP
- Worked as Student Advisor, Counseling students about the selection of their courses. Guiding them in other academic matters like participation in conferences, scholarships etc.
- Worked as Account Supervision. Looking at different financial matters of the Centre from Sep 2005 to Feb 2007 at NUST-CAMP.
- Worked as in-charge Library affairs, responsible for the selection of books for CAMP library and ordering them from appropriate Booksellers.

- Worked as Deputy Controller Exam at CAMP (NUST). Responsible for smooth conduct of Exams at the Centre. This includes sending of Thesis to foreign and local experts for evaluations, comprehensive examinations, and Thesis defense of students.