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CONTACTS

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EDUCATION

- **Post Doctorate** in Mathematics, United Arab Emirates University, United Arab Emirates, 2018.
- **PhD** in Mathematics, (05-05-2014).
  Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan.

- **MPhil** in Mathematics, GC University, Lahore, 2008.

- **MSc** in Mathematics, University of the Punjab, Lahore, 2005.

- **BSc**, Double Mathematics, Physics, University of the Punjab, Lahore, 2003.

- **Fsc**, Pre-Engineering, BISE Lahore, 2001.

- **Matric**, Science, BISE Lahore, 1999.

EXPERIENCE

- Associate Professor, Comsats University Islamabad, Lahore Campus, Pakistan 11-04-2022 to Current.
- Assistant Professor, Comsats University Islamabad, Lahore Campus, Pakistan 13-08-2014to 10-04-2022.
- Lecturer in Mathematics, ILM College, Lahore, 2008-2009.
- Lecturer in Mathematics, Government Degree College Raiwind, 2007-2008.
- Lecturer in Mathematics, The Minhaj University, Lahore, 2006-2007.

HONOR AND AWARDS

- **HEC Approved Supervisor**
- Won the Best research performance award, 2013 during the PhD study at Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan.

- Won the best research productive award, 2016 at Comsats University Islamabad, Sahiwal Campus, Pakistan.

Research Interest

- Graph Labeling.
- Graph Theory and Combinatorics.
- Chemical Graph Theory
- Discrete Mathematics

Publications

1. Shi, Longmei, Shreefa O. Hilali, Mohammed Alhagyan, Muhammad Farhan Hanif, Muhammad Kamran Siddiqui, Tayyaba Noor. "Exploring Degree-Based Topological Co-Indices and Their Statistical Analysis for Cubic Zirconia Network." Journal of Computational Biophysics and Chemistry, (2024): 1-21.

2. Rongbing Huang, Muhammad Farhan Hanif, Muhammad Faisal Hanif, Muhammad Kamran Siddiqui, Tayyaba Noor, Douhadji Abalo, (2024), Analyzing Topological Indices and Heat of Formation for Copper(II) Fluoride Network via Curve Fitting Models, Applied Artificial Intelligence, 38:1, 2327235.

3. Hao Zhou, Muhammad Farhan Hanif, Hasan Mahmood, Muhammad Kamran Siddiqui, Mazhar Hussain, Samuel Asefa Fufa, (2024), On analysis of iron (II) chloride via graph entropy measures and statistical models, PLOS ONE, 19(1): 1-31, e0294580.

4. S Jeyamangala Abirami, S Angelin Kavitha Raj, Muhammad Kamran Siddiqui, Computation of reverse neighbourhood degree-based topological indices for the transition metal phthalocyanine polymers (poly-TMPc), Physica Scripta, 99 (2024) 025025, 1-16.

5. S. Jeyamangala Abirami, S. Angelin Kavitha Raj, Muhammad Kamran Siddiqui, Tariq Javed Zia, (2023), Computation of degree-based topological indices for the complex structure of ruthenium bipyridine, International Journal of Quantum Chemistry, 12, 1-20, DOI: 10.1002/qua.27310.

6. Pan Liqiong, Muhammad Farhan Hanif, Hasan Mahmood, Muhammad Kamran Siddiqui, Shazia Manzoor, Murat Cancan, (2024), On Entropy Measures for Crystallographic Structure of Silicon–Carbon Networks, Polycyclic Aromatic Compounds, 44:1, 375-402.

7. Sana Javed, Muhammad Kamran Siddiqui, Sadia Khalid, Shazia Manzoor, Uzair Zaman Khan, Predictive modeling of the heat of formation of sulfur hexafluoride using data science techniques, Eur. Phys. J. Plus, (2023), 138:1119, 1-21.

8. Wang Zhen, Mazhar Hussain, Muhammad Kamran Siddiqui, Sana Javed, Sadia Khalid, Naima Amin, 2023, On physical analysis of entropy measures for sodium oxide via statistical models, International Journal of Quantum Chemistry, 12, 1-20, DOI: 10.1002/qua.27295.

9. Hani Shaker, Sabeen Javaid, Usman Babar, Muhammad Kamran Siddiqui, Asim Naseem, Characterizing superlattice topologies via fifth M-Zagreb polynomials and structural indices, Eur. Phys. J. Plus, (2023) 138:1025, 1-12.

10. Yongzhou Lu, Muhammad Kamran Siddiqui, Muhammad Nasir, Muhammad Farhan Hanif (2023), On Topological Co-Indices of David Derived Networks, IETE Journal of Research, 69:9, 5871-5882.

11. Leena Rosalind Mary Gnanaraj, Deepa Ganesan, Muhammad Kamran Siddiqui, (2023), Topological Indices and QSPR Analysis of NSAID Drugs, Polycyclic Aromatic Compounds, 43(10), 9479-9495.

12. Muhammad Kamran Siddiqui, Sana Javed, Sadia Khalid, Naima Amin, Mazhar Hussain, (2023), On network construction and module detection for molecular graph of titanium dioxide, Journal of Biomolecular Structure and Dynamics, 41(20), 10591-10603.

13. Mazhar Hussain, Muhammad Kamran Siddiqui, Muhammad Farhan Hanif, Hasan Mahmood, Zohaib Saddique, Samuel Asefa Fufa, On K-Banhatti indices and entropy measure for rhodium (III) chloride via linear regression models, Heliyon, 9, (2023), e20935, 1-13.

14. Caicai Feng, Muhammad Farhan Hanif, Muhammad Kamran Siddiqui, Mazhar Hussain, Nazir Hussain, On analysis of entropy measure via logarithmic regression model for 2D-honeycomb networks, Eur. Phys. J. Plus, (2023) 138:924, 1-17.

15. Xiaojiao Wang, Muhammad Farhan Hanif, Hasan Mahmood, Shazia Manzoor, Muhammad Kamran Siddiqui, Murat Cancan, (2023), On Computation of Entropy Measures and Their Statistical Analysis for Complex Benzene Systems, Polycyclic Aromatic Compounds, 43:9, 7754-776.

16. Lei Huang, Yong Wang, K. Pattabiraman, P. Danesh, Muhammad Kamran Siddiqui, Murat Cancan, (2023), Topological Indices and QSPR Modeling of New Antiviral Drugs for Cancer Treatment, Polycyclic Aromatic Compounds, 43:9, 8147-8170.

17. Lei Huang, Abid Mahboob, Muhammad Kamran Siddiqui, Muhammad Imran, Muhammad Waheed Rasheed, Muhammad Waqas, On QSPR study of energies and thermodynamic aspects of antimalaria medicines, Physica Scripta, 98, (2023), 115218, 1-13.

18. Dongming Zhao, Muhammad Farhan Hanif, Hasan Mahmood, Muhammad Kamran Siddiqui, Mazhar Hussain, Nazir Hussain, Topological analysis of entropy measure using regression models for silver iodide, Eur. Phys. J. Plus (2023), 138, 1-17.

19. Shahid Zaman, Mehreen Mustafa, Asad Ullah, Muhammad Kamran Siddiqui, Study of mean-first-passage time and Kemeny's constant of a random walk by normalized Laplacian matrices of a penta-chain network, Eur. Phys. J. Plus, (2023) 138:770, 1-12.

20. Asma Khalid, Muhammad Abdullah Khan, Muzammil Hussain, Muhammad Kamran Siddiqui, Imran Zulfiqar Cheema, Tariq Javed Zia, (2023), Topological Co-Indices of Molecular Structure of Porphyrazine Network, Polycyclic Aromatic Compounds, 43(7), 6654-6664.

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23. Naz, Kiran, Sarfraz Ahmad, Muhammad Kamran Siddiqui, Hafiz Muhammad Bilal, and Muhammad Imran. "On computing some degree based topological indices for backbone DNA networks." Journal of Applied Mathematics and Computing (2023): 1-16.

24. Weidong Zhao, Muhammad Kamran Siddiqui, Syed Ajaz K. Kirmani, Nazir Hussain, Hameed Ullah & Murat Cancan, (2023), On Analysis of Topological Co-Indices for Triangular Benzenoids and Starphene Nanotubes, Polycyclic Aromatic Compounds, 43(6), 5310-5337.

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41. Jun Yang, Muhammad Kamran Siddiqui, Amina Bashir, Shazia Manzoor, Sayed M. Eldin, Murat Cancan, On physical analysis of topological co-indices for beryllium oxide via curve fitting models, Journal of Molecular Structure, Vol. 1278, 2023, 134933,1--12.

42. Rauf, Abdul, Bushra Akram, Muhammad Ishtiaq, and Muhammad Kamran Siddiqui. (2023): "Topological Properties of Curcumin and Hyaluronic Acid Conjugated Molecular Structure: An Anti-Cancer Drug." Polycyclic Aromatic Compounds, 43, no. 1, 219-232.

43. Rongbing Huang, Muhammad Kamran Siddiqui, Shazia Manzoor, Sadia Khalid, Sultan Almotairi, On physical analysis of topological indices via curve fitting for natural polymer of cellulose network. Eur. Phys. J. Plus 137, 410 (2022), 1--17.

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55. Muhammad Imran, Muhammad Kamran Siddiqui, Sana Javed, Lubna Sherin, Sadia Khalid, Waqar Asghar, On analysis of heat of formation and entropy measures for indium phosphide, Arabian Journal of Chemistry, (2022), 15(11), 1--13.

56. Syed Ahtsham Ul Haq Bokhary, Adnan, Muhammad Kamran Siddiqui, Murat Cancan, (2022), On Topological Indices and QSPR Analysis of Drugs Used for the Treatment of Breast Cancer, Polycyclic Aromatic Compounds, 42(9), 6233-6253.

57. Rongbing Huang, Mehwish Hussain Muhammad, Muhammad Kamran Siddiqui, Muhammad Nasir, Murat Cancan (2022) On Degree Based Topological CoIndices of Graphite Carbon Nitride, Polycyclic Aromatic Compounds, 42:8, 5616-5625.

58. Yun Yu, D. Antony Xavier, Eddith Sarah Varghese, Deepa Mathew, Muhammad Kamran Siddiqui, Samuel Asefa Fufa, Distance-Based Topological Descriptors on Ternary Hypertree Networks, Complexity. Volume 2022, Article ID 4634326, 1--9.

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60. Muhammad Kamran Siddiqui, Sana Javed, Sadia Khalid, Mazhar Hussain, Muhammad Shahbaz, Samuel Asefa Fufa, On Topological Analysis of Niobium (II) Oxide Network via Curve Fitting and Entropy Measures, Complexity Volume 2022, Article ID 4112362, 1-25.

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67. Chu, Yu-Ming, Muhammad Numan, Saad Ihsan Butt, Muhammad Kamran Siddiqui, Rizwan Ullah, Murat Cancan, and Usman Ali., Degree-Based Topological Aspects of Polyphenylene Nanostructures. Polycyclic Aromatic Compounds, 2022, VOL. 42, NO. 5, 2591-2606.

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Ph.D. Supervision

1. **Ms. Shazia Manzoor**   On Entropy Measures of Graph Structures and Their Applications **(2019-2022)**

MS Supervision

1. Ms.Hamna Khalid,   On Edge Irregularity Strength for Disjoint Union of Graphs   (June, 2020)

2. Ms.Fiza Abbas,   On Inclusive Vertex Irregular Distance Vertex Labeling   (June, 2020)

3. Mr.Muhammad Nasir,   Degree Based Topological Co-Indices of Graphs   (Jan, 2021)

4. Ms. Aimen Wali,   On VE and EV Degree Based Topological Index of Graphs   (Jan, 2021)

5. Mr. Mohsan Majeed   On Some Regular Properties of Fuzzy Graph   (June, 2021)

6. Mr. Zafar Iqbal   On Degree Based Topological Indices of Chemical Graphs   (June, 2021)

7. Mr. M.Tayyab Younas   Reverse Degree Based Topological Indices of Chemical Graphs   (June, 2021)

8. Mr. Safdar Ali   Computing Topological Indices for the Product of Graphs   (June, 2021)

9. Mr. Inzimam Sajid   Reverse Degree Based Topological Indices of Graph Products   (Feb, 2022)

10. Mr. Nazir Hussain   Degree Based Topological Co-Indices of Chemical Graphs   (Feb, 2022)

11. Mr. Hammad Ali   Computing Degree Based Topological Indices of Calcium Hydroxide   (June, 2022)

12. Mr. Anees ul Hassan   On Degree Based Topological Indices of Zinc Sulphide   (June, 2022)

13. Ms. Amina Bashir,   On Statistical Analysis of Topological Indices for Beryllium Oxide   (Feb, 2023)

14. Mr. Muhammad Sadiq,   Computing Degree Based Topological Indices for Copper Iodide   (June, 2023)

15. Mr. Tayyaba Noor, On Characterization of Topological Properties for Cubic Zirconia Network   (Feb, 2024)

BS. Mathematics Projects Supervised

1. Abaidullah Ramay, Sajid Naeem, Degree Based Topological Indices of Molecular Structures, (June, 2022)
2. Muhammd Umair Umar, Muhammad Adnan, Topological Indices of Phenylene Graphs, (Feb, 2023)
3. Muhammad Awais, Syed Umair Raza, Computing Degree Based Topological Indices of Niobium Sulfide Chloride (June, 2023)
4. Asmara Yahya,, Hafiza Rizwana Bibi, On Topological Indices of Molecular Graph of Magnesium Chloride(Feb, 2024)

M.Sc. Mathematics Projects Supervised

1) Ejaz Ahmad, CIIT/FA14-MTH-018/SWL, Face Antimagic Labelling of Graphs, **2015**.

2) Sumia Razzaq, CIIT/FA14-MTH-016/SWL, On Vertex Irregular Labelling of Graphs, **2015**.

3) Syed Safdar Javed Shah, CIIT/FA14-MMTH-092/CVC, On Irregular Total and Graceful Labelings**2015**.

4) Muhammad Adeel Saleem, CIIT/FA14-MMTH-091/CVC, Super Antimagic Labelings of Graphs.**2015**.

5) Mansoor Ali, CIIT/SP15-MMTH-079/CVC, Antimagic Labeling for Union of Graphs. **2016**.

6) Ali Imran, CIIT/SP15-MMTH-029/CVC, On L(2,1) Labeling of Graphs, **2016.**

7) Muhammad Naeem Asghar, CIIT/SP15-MMTH-088/CVC, Mean Labeling of Graphs, **2016.**

8) Tahir Jamal, CIIT/SP15-MTH-011/SW, Super mean labeling of graphs,**2016**.

9) Kandeel Fatima, CIIT/FA15-MTH-013/SWL, Zero-Sum Flow Numbers of Graphs, **2017**.

0) Maria Sabir, CIIT/FA15-MTH-017/SWL, The Total Irregularity Strength of Graphs **2017**.

11) Sajeela Ghulam Nabi, CIIT/FA15-MTH-021/SWL, On Edge Irregularity Strength of Graphs,**2017**.

12) Ali Raza Shafiq, CIIT/SP16-MTH-018/SWL, Topological indices for molecular structures **2017**.

13.) Sidra Bukhari, CIIT/SP16-MMTH-030**/**CVC, Edge-Antimagic Labeling of Graphs, **2018.**

14.) Muhammad Ramzan, CIIT/SP16-MMTH-060**/**CVC, On Topological Indices of certain interconnection networks, **2018**.

External Examiner

I performed my duties as an external examiner at the level of Ph.D, M.Phill and BS in several reputed university at national level, like, University of Lahore, FAST University Lahore, FAST University Peshawar, GC University Lahore, UMT Lahore, Air University Multan, BZ University Multan, Lahore Garrison University, and GC University Faisalabad.

CONFERENCES/ SEMINARS/ Talks**/I**nternational

1. **CIMPA** School on Recent Advances in Combinatorics and its Application, Comsats University Islamabad, Lahore Campus, (November 01-11, 2022), Pakistan.

2. **CIMPA** School on Recent Advancement in Dynamical Systems, Nov 08-19, 2021, Comsats University Islamabad Lahore Campus, **Pakistan**.

3. One Day Math Workshop by Pearson in Dubai, Arjan hotel, 22 November 2018, **United Arab Emirates.**

4. Workshop on Delay Differential: Theory, Application and New Tends (DDEs-TANTs), from 3-4 October 2018, Department of Mathematics, United Arab Emirates university, **United Arab Emirates.**

5. UAE Math Day, School of Arts and Sciences, American University of Ras Al Khaimah, **United Arab Emirates**, 14, April 2018.

6. **CIMPA**- Research School on 'Graph labeling, Graph Decompositions and Hamiltonian cycles' Vientiane, **Laos**, 8-19 December 2014.

7. **CIMPA**-Unesco-Mesr-Mineco-Research School on Graphs, Codes and Design,**Thailand**, May 20-31, 2013.

8. The 3rd Graph masters Workshop held at ITB Bandung **Indonesia,** July 18-19, 2012.

9. The 5th International Workshop on Optimal Network Topologies, IWONT 2012, ITB Bandung, **Indonesia**, July 27-29, 2012.

10. The 7th International Workshop On Graph Labeling 2012, held at Hotel Seruni, Puncak, **Indonesia**, July 23-25, 2012.

CONFERENCES/ SEMINARS/ PAKISTAN

1. National Workshop on Recent Advances in Graph Theory and Combinatorics at LUMS from November 22-24, 2013

2. 6th World Conference on 21st Century Mathematics, 2013, held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from March 6-9, 2013.

3. Spring workshop on recent advances in graph theory and combinatorics held at LUMS from February 17-19, 2012.

4. An Encounter of Algebra and Geometry A Sharing and Learning Conference (Conference dedicated to Barbu Berceanu for his 60th birthday) held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from November 19-22, 2011.

5. An Expository Workshop on Number Theory and Allied Areas in Mathematics held at Abdus Salam School of Mathematical Sciences from September 26 - 30, 2011

6. Participation in the seminar series on "Geometric Measure Theory" delivered by Dr. Franks Morgan (Vice President of American Mathematical Society) held at Abdus Salam School of Mathematical Sciences from April, 2–8, 2011.

7. 5th World Conference on 21st Century Mathematics, 2011, held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from February 9-13, 2011.

8. "One Day Undergraduate Conference on Mathematics " November 16, 2009, held at Abdus Salam School of Mathematical sciences, GC University Lahore, Pakistan.

DELIVERED TALKS

1. **M. K. Siddiqui**, *Graph Algorithms*, UAE Math Day, School of Arts and Sciences, American University of Ras Al Khaimah, United **Arab Emirates**, 14, April 2018.

2. **M. K. Siddiqui**, *Cyclic Supermagic labeling of graphs*, in Graph Theory Seminar series held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from March 3-31, 2014.

3. **M. K. Siddiqui**, *Total edge irregularity strength of categorical product of cycle and path*, in Graph Theory Seminar series held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from June 1-28, 2013.

4. **M. K. Siddiqui**, *Total edge irregularity strength of strong product of two paths,* in 6th World Conference on 21st Century Mathematics, 2013, held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from March 6-9, 2013.

5. **M. K. Siddiqui**, *On irregularity labeling of graphs,* in The 5th International Workshop on Optimal Network Topologies, IWONT 2012, ITB Bandung Indonesia, July 27-29, 2012.

6. **M. K. Siddiqui**, *On super edge magic deficiency of kite graphs*, in Graph Theory Seminar series held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from November 3-27, 2012.

7. **M. K. Siddiqui**, *On Tvs of Subdivision of star*, in Graph Theory Seminar series held at Abdus Salam School of Mathematical Sciences, GC University Lahore, Pakistan from May 9-30, 2011.

PAPER REFEREED

1. **Journal**: Mathematics in Computer Sciences.
2. **Journal**: AKCE International Journal of Graphs and Combinatorics.
3. **Journal**: Utilitas Mathematica
4. **Journal**: Ars Combinatoria
5. **Journal**: Applied Math and Computation
6. **Journal**: Asian Journal of Graph Theory
7. **Journal:** The Discussiones Mathematicae Graph Theory
8. **Journal:** The Turkish Journal of Mathematics
9. **Journal:** IEEE ACCESS
10. **Journal:** Journal of Chemistry
11. **Journal:** Polycyclic aromatic compound
12. **Journal:** Journal of Mathematics
13. **Journal:** Complexity
14. **Journal:** Symmetry
15. **Journal:** Mathematics
16. **Journal:** Applied Mathematics and Modelling
17. **Journal:** The European Physical Journal Plus
18. **Journal:** Molecular Physics

Course Taught

- Real Analysis
- Algebra
- Calculus and Analytical Geometry
- Rings and Modules
- Multivariable Calculus
- Linear Algebra
- Discrete Mathematics
- Graph Theory
- Calculus I
- Calculus II
- Combinatorics

Administrative Work at COMSATS

- I am a member of department admission committee.
- I am member of Departmental Event Management Committee.
- I am a member of the Accreditation Committee of the Department.
- I have served as the member of departmental Project Evaluation Committee.

PROFESSIONAL MEMBERSHIPS

- Member National Mathematical Society.

- Member Pakistan Mathematical Society, Pakistan.

- Member Punjab Mathematical Society, Pakistan.

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MISCELLANEA

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REFERENCES

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