

# Curriculum Vitae

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**Dr. Muhammad Adil Khan**

**Assistant Professor**  
**Department of Mathematics**  
**University of Peshawar Pakistan**



## **1 Personal Information:**

Nationality: Pakistani

Email: [madilkhan@uop.edu.pk](mailto:madilkhan@uop.edu.pk), [adilswati@gmail.com](mailto:adilswati@gmail.com)

Mailing address: Department of Mathematics, University of Peshawar,  
Peshawar, Pakistan.

## **2 Academic Background:**

1. PhD: Abdus Salam School of Mathematical Sciences, GCU, Lahore, Pakistan.

*Title of Dissertation:* Inequalities for Bregman and Burbea-Rao Divergences and Related Results.

Defense Date: 30 March 2012

Supervisor: Prof. Dr. Josip Pečarić, Faculty of Textile Technology, University of Zagreb, Croatia.

2. M. Sc, University of Malakand, Chakadara, Pakistan (2006)

3. B. Sc, University of Peshawar, Peshawar, Pakistan (2003)

4. F.Sc, BISE Saidu Sharif Swat Pakistan (2001)

5. SSC, BISE Saidu Sharif Swat Pakistan (1999)

6. B.Ed, Allama Iqbal Open University Islamabad, Pakistan (2006).

## **3 Research Field and Interest:**

- Theory of Inequalities
- Convex Analysis
- Functional Analysis
- Operator Theory

## **4 Teaching Experience**

Assistant Professor in Department of Mathematics University of Peshawar from 09-05-2012 to date.

Courses Taught:

- Measure Theory
- Functional Analysis
- Convex Analysis
- Mathematical Inequalities and Applications
- Special Functions
- Algebra

- Calculus

## **5 Referee in International Journals:**

1. Journal of Inequalities and Applications
2. Mathematical Communications
3. Advances in Pure Mathematics
4. Turkish Journal of Mathematics
5. FILOMAT
6. Cogent Mathematics
7. Studia Universitatis Babeş-Bolyai Mathematica.
8. Journal of Mathematical Analysis
9. Communication in Mathematical Modeling and Applications
10. European Journal of Pure and Applied Mathematics
11. Journal of Nonlinear Sciences and Applications

## **6 Supervision:**

### **PhD Students:**

#### **PhD completed**

- i. Tahir Ali:  
Title of the Thesis: On Variant of Hermite-Hadamard Type Inequalities with Applications  
Thesis defense date: 23-07-2018
- ii. Jamroz Khan:  
Title of the Thesis: Inequalities Via Montgomery Identity and Related Results  
Thesis defense date: 23-07-2018

#### **PhD in progress**

- i. Zahir Ullah
- ii. Arshad Iqbal
- iii. Sumbel Begum
- iv. Yousaf Khurshid

### **M. Phil Students:**

#### **M. Phil completed**

- i. Muhammad Jamil:  
Title of the Thesis: On Jensen-Mercer's Inequality with Related Results
- ii. Tahir Ali:  
Title of the Thesis: Refinements of Jensen's Inequality with Applications
- iii. Arshad Iqbal:  
Title of the Thesis: On Majorization Type Inequalities with Related Results
- iv. Syed Amanat Shah:  
Title of the Thesis: Results Related to Jensen's Inequality
- v. Waqas Ahmad:  
Title of the Thesis: Inequalities for  $\alpha(x)$ -convex functions
- vi. Rizwan Ullah:  
Title of the Thesis: New refinements of Jensen-Mercer's inequality with application for means

- vii. Yousaf Khurshed:  
Title of the Thesis: On inequalities for n-convex functions
  - viii. Imtiaz Bacha:  
Title of the Thesis: Refinements Of Jensen's Inequality For Co-ordinate Convex Functions
  - ix. Tahir Ullah Khan:  
Title of the Thesis: Generalizing Fractional Integrals and Related Results
  - x. Muhammad Fazil:  
Title of the Thesis: On Hermite-Hadamard Type Inequalities with Applications
  - xi. Malak Aizaz Khan:  
Title of the Thesis: New Parameterized Hermite-Hadamard Type Inequalities With Applications To Means
  - xii. Abdul Basir:  
Title of the Thesis: On Majorization and Favard's Inequalities
  - xiii. Arif Ullah  
Title of the Thesis: Refinements of Majorization Inequalities for Separable Sequences
  - xiv. Sajid Ahmad  
Title of the Thesis: New Inequalities for Super Quadratic Functions
  - xv. Muhammad Hanif  
Title of the Thesis: New Inequalities for s-Convex Functions
  - xvi. Hidayat Ullah  
Title of the Thesis: Extension of Discrete Majorization Type Inequalities
  - xvii. Muhammad Suleman  
Title of the Thesis: Refinements of Inequalities Via Different Kinds of Convex and Green Functions
  - xviii. Zaid Mohammed Mohammed Mahdi  
Title of the Thesis: Inequalities for Shannon and Zipf-Mandelbrot Entropies
  - xix. Shahid Ali Shah  
Title of the Thesis: Majorization Type Inequalities Via Generalized Fink's Identity and Green Function
  - xx. Aaleena Menhas  
Title of the Thesis: Derivation of the Hermite-Hadamard Type Inequalities Involving h-Convex Functions
  - xxi. Ajab Khan  
Title of the Thesis: Inequalities for Convex Functions in Terms of Gateaux Derivatives
  - xxii. Sana Ullah  
Title of the Thesis: Hermite-Hadamard Type Inequalities Involving Conformable Integrals
- BS Students
- i. Umar Farooq  
Title of the Thesis: On Hermite- Hadamard Inequality

## **7 My Research Collaborators:**

- i. Prof. Dr. Josip Pečarić , Faculty of Textile Technology, University of Zagreb, Croatia  
E-mail : [pecaric@element.hr](mailto:pecaric@element.hr)
- ii. Prof. Dr. Ivan Perić, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia  
E-mail : [iperic@pbf.hr](mailto:iperic@pbf.hr)
- iii. Prof. Dr. Sanjo Zlobec, Department of Mathematics and Statistics, McGill University, Montreal, Quebec, Canada  
E-mail : [zlobec@math.mcgill.ca](mailto:zlobec@math.mcgill.ca)

- iv. Prof. Dr. Gul Zar Ali Khan, Dean, Faculty of Physical and Numerical Sciences, University of Peshawar, Peshawar, Pakistan  
Email: [mathematics@upesh.rdu.pk](mailto:mathematics@upesh.rdu.pk)
- v. Prof. Dr. Yu-Ming Chu, Department of Mathematics, Huzhou University, 313000, Huzhou, China  
Email: [chuyuming2005@126.com](mailto:chuyuming2005@126.com)
- vi. Prof. Dr. S. S. Dragomir, School of Computer Science and Mathematics Victoria University of Technology, Australia  
Email: [sever.dragomir@vu.edu.au](mailto:sever.dragomir@vu.edu.au)
- vii. Prof. Dr. Adem Kilicman, Department of Mathematics and Institute of Mathematical Research University Putra Malaysia.  
Email: [akilic@upm.edu.my](mailto:akilic@upm.edu.my)
- viii. Dr. Matloob Anwar, Assistant Professor, NUST Islamabad Pakistan  
Email: [matloob\\_t@yahoo.com](mailto:matloob_t@yahoo.com)
- ix. Dr. Naveed Latif, Assistant Professor, Department of Mathematics, Govt. College University, Faisalabad, Pakistan  
Email: [naveed707@gmail.com](mailto:naveed707@gmail.com)
- x. Dr. Sadia Khalid, Lecture, Department of Mathematics, Women University Lahore, Pakistan  
Email: [saadiakhalid176@gmail.com](mailto:saadiakhalid176@gmail.com)
- xi. Dr. Asif Raza Khan, Assistant Professor, Department of Mathematics University of Karachi Pakistan  
Email: [asif rizkhan@yahoo.com](mailto:asif rizkhan@yahoo.com).
- xii. Dr. Khurram Ali Khan, Assistant Professor, Department of Mathematics, Sargodha University, Pakistan  
Email: [khuramsms@gmail.com](mailto:khuramsms@gmail.com)

## **8 Conferences/Schools /Workshops**

- **As a presenter**, 5th World Conference on 21st Century Mathematics; held 09-13 February 2011; Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan.
- **As a presenter**, International Conference on Mathematical Inequalities and Applications; held 07-13 March 2010; Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan.
- **As a presenter**, 4th World Conference on 21st Century Mathematics; held 04-08 March 2009; Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan.
- **As a participant**, LUMS 2nd International Conference on Mathematics and its Applications in Information Technology; held 09-12 March 2008; Lahore University of Management Sciences, Lahore, Pakistan.
- **As a participant**, Two Days National Conference on Mathematical Science, Islamic International University Islamabad” on 19th, 20th October, 2012
- **As a participant**, CIMPA-UNESCO-SCHOOL **PHILIPPINES** Algebraic Curves over finite fields and applications Manilla, Jul 22, 2013 - Aug 2, 2013
- **As a presenter**, CIMPA-UNESCO-SCHOOL **MONGOLIA** Hypergeometric Functions and Representation Theory Ulaanbaatar, Aug 5, 2013 - Aug 16, 2013.
- **As a participant**, CIMPA-UNESCO-SCHOOL **Iraq** Inverse problem and Their application, 5 May, 2013 -16 May 16, 2014
- **As a presenter**, International Conference on Mathematical Inequalities and Application one Thousand Papers, The Department of Mathematical, Physical And Chemical Sciences of The Croatian Academy of Sciences And Arts . June 22-26, 2014, **Trogir, Croatia.**

- **As a presenter**, Work Shop on Advancements in Pure and Applied Mathematics, COMSATS Institute of Information Technology, Attock Campus Department of Mathematics, April 24-25, 2014.
- **As a presenter**, International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2015), Istanbul Commerce University, **Turkey**, 3-6 Jun 2015.
- **As a presenter**, 16<sup>th</sup> International Pure Mathematics Conference 2015 Algebra, Analysis and Geometry, Islamabad, 3-6 August 2015.
- **As a presenter**, International Conference on Mathematical Inequalities and Application, Mostar, **Bosnia and Herzegovina**, 11-15 November 2015.
- **As a presenter**, 1st UMT International Conference in pure and applied Science, Lahore, 5-7 March 2016.
- **As a participant**, On Recent Advances in Mathematical Methods, Models & Applications, Lahore School of Economics, April 11 - 12, 2016.
- **As a presenter**, 17<sup>th</sup> International Pure Mathematics Conference 2016 Algebra, Analysis and Geometry, Islamabad, 5-7 August 2016.
- **As a presenter**, 2nd International Conference On Advances in Natural and Applied Sciences, **Antalya, Turkey**, April 18-21, 2017.
- **As a presenter**, International Conference on Nonlinear Analysis and Convex Analysis, Chitose City Cultural Center Hokkaido **Japan**, July 4-9, 2017.
- **As a participant**, On Recent Advances in Mathematical Methods, Models & Applications, Lahore School of Economics, April 7 - 8, 2018
- **As a presenter**, 17<sup>th</sup> International Pure Mathematics Conference 2018 Algebra, Analysis and Geometry, Islamabad, 17-19 August 2018.

## **9 List of Publications**

- 1) M. Adil Khan, M. Anwar, J. Jaksetić and J. Pečarić, On some improvements of the Jensen inequality with some applications, *J. Inequal. and Appl.*, (2009), Article ID 323615, 15 pages.
- 2) M. Adil Khan and J. Pečarić, Improvement and reversion of Slater's inequality and related results, *J. Inequal. and Appl.*, (2010), Article ID 646034, 14 pages.
- 3) M. Adil Khan, M. Niezgoda and J. Pečarić, On a refinement of the majorization type inequality, *Demonstratio Math.*, Vol. 44, No. 1 (2011), 49-57.
- 4) M. Adil Khan and J. Pečarić, On Slater's integral inequality, *J. Math. Inequal.*, Vol. 5, No. 2 (2011), 231-241.
- 5) M. Adil Khan, M. Niezgoda and J. Pečarić, Further results on convex functions and separable sequences with applications, *Acta Math. Vietnam*, Vol. 37, No. 3(2012), 327-339.
- 6) M. Adil Khan, Naveed Latif, J. Pečarić and I. Perić, On Sapogov's extension of Chebyshev's inequality and related results, *Thai J. Math*, Vol. 10, No. 2 (2012), 617-633.
- 7) M. Adil Khan, M. Niezgoda and J. Pečarić, Bregman and Burbea-Rao divergences for matrices, *Rad Hazu* Vol. 515 (2013), 11-32 .
- 8) M. Adil Khan, Naveed Latif, I. Peric and J. Pečarić, On majorisation for matrices, *Mathematica Balkanica*, Vol. 27, Fasc 1-2 (2013), 3-19.
- 9) M. Adil Khan, Sadia Khalid and J. Pečarić, Improvement of Jensen's inequality in term of the Gateaux derivatives for convex functions in linear spaces with applications, *Kyungpook Math. J.*, Vol. 52(2012), 495-511.
- 10) M. Adil Khan, Asif R. Khan and J. Pečarić, On the refinements of Jensen-Mercer's inequality, *Revue D'Analyse Numerique Et De Theorie De L'Approximation*, Tome 41, No 1, (2012), 62-81.

- 11) M. Adil Khan, Sadia Khalid and J. Pečarić, Refinements of some majorization type inequalities, *J. Math. Inequal.*, Vol. 7, No. 1 (2013), 73–92.
- 12) M. Adil Khan, Majorization inequality for convexifiable functions, *Math. Commun.*, Vol. 18 (2013), 61-65.
- 13) M. Adil Khan and J. Pečarić, Improvement of Jensen's inequality for Quasi Arithmetic Mean with some applications, *Punjab University Journal of Mathematics*, Vol. 45 (2013), 99- 113.
- 14) M. Adil Khan, G. Ali Khan, T. Ali, T. Batbold and A. Kilicman, Further refinements of Jensen's type inequalities for the function defined on the rectangle, *Abstract and Applied Analysis*, Vol. 2013, Article ID 214123, 9 pages
- 15) M. Adil Khan, A. Kilicman. N. Rehman, Integral majorization theorem for invex functions. *Abstract and Applied Analysis* Volume 2014, Art. ID 149735, 4 pages
- 16) M. Adil Khan, S. Khalid and J. Pečarić, n-exponential convexity for majorization inequality for functions of two variables and related results, *Acta Comment. Univ. Tartu. Math.*, Vol. 18, No. 2 (2014), 221-237. .
- 17) M. Adil Khan, N. Latif, and J. Pečarić, Generalization of majorization theorem, *J. Math. Inequal.* Vol. 9, No. 3 (2015), 847-872.
- 18) M. Adil Khan, N. Latif and J. Pečarić, Generalization of majorization theorem by Hermite's polynomial, *J. Adv. Math. Stud.*, **8**(2) (2015), 206-223.
- 19) M. Adil Khan, G. Ali Khan, T. Ali, and A. Kilicman, On the refinement of Jensen's inequality, *Applied Mathematics and Computation*, 262 (2015), 128–135.
- 20) M. Adil Khan, Naveed Latif, and J. Pečarić, On generalizations of majorization inequality, *Nonlinear Functional Analysis and Applications*, **20** (2) (2015), 301-327.
- 21) M. Adil Khan, N. Latif, and J. Pečarić, Generalization of majorization theorem Via Abel-Gontscharoff Polynomial, *Rad Hrvat. Akad. Znan. Umjet. Mat. Znan*, 19(523) (2015), 91-113.
- 22) M. Adil Khan, G. Ali Khan, M. Jamil, K. A. Khan and A. Kilicman, New refinements of Jensen-Mercer Inequality, *Journal of Computational and Theoretical Nanoscience*, 12 (2015) 4408-4414 .
- 23) M. Adil Khan, J. Khan and J. Pečarić, Generalizations of Sherman's inequality by Montgomery Identity and Green function, *Mongolian Mathematical Journal* 19 (2015), 46-63.
- 24) T. Batbold, V. Adiyasuren and M. Adil Khan, Refined arithmetic-geometric mean inequality and new entropy upper bound, *Commun. Korean Math. Soc.* 31 (1) (2016), 95-100.
- 25) Q. Din, M. Adil Khan, Umer Saeed, Qualitative Behaviour of Generalised Beddington Model, *Zeitschrift für Naturforschung A*, 71(2), (2016), 145–155.
- 26) S. S. Dragomir, M. Adil Khan and A. Abathun, Refinement of Jensen's integral inequality, *Open Math.*, 14 (2016), 221–228.
- 27) M. Adil Khan, T. Ali, Q. Din and A. Kilicman, Refinements of Jensen's inequality for convex functions on the co-ordinates of a rectangle from the plane, *Filomat*, 30 (3) (2016), 803–814.
- 28) M. Adil Khan, N. Latif, and J. Pečarić, Majorization type inequalities via Green function and Hermite's polynomial, *J. Indones. Math. Soc.* 22(1) (2016), 1-25.
- 29) Yu-Ming Chu,, M. Adil Khan, T. U Khan and T. Ali, Generalizations of Hermite-Hadamard type inequalities for MT-Convex functions, , *J. Nonlinear Sci. Appl.* 9 (2016), 4305-4316.
- 30) M. Adil Khan, Y. Khurshid, T. Ali and N. Rehman, Inequalities for three times differential functions, *Punjab University Journal of Mathematics*, 48(2) (2016) , 35-48.
- 31) Erhan Set, Suleyman Sami Karatas and Muhammad Adil Khan, New Hermite - Hadamard type inequalities obtained via fractional integral for differentiable m-convex and

- ( $\alpha, m$ )-convex function, *International Journal of Analysis*, Volume 2016, Article ID 4765691, 8 pages.
- 32) M. Adil Khan, S. Ivlic Bradanovic and J. Pečarić, Generalizations of Sherman's inequality by Hermite's interpolating polynomial, *Math. Inequal. Appl.*, Volume 19(4) (2016), 1181–1192.
- 33) M. Adil Khan, S. Ivlic Bradanovic and J. Pečarić, Generalizations of Sherman's inequality by Hermite's interpolating polynomial and green function, *Konuralp Journal of Mathematics*, 4(2) (2016), 255-270.
- 34) M. Adil Khan, Naveed Latif, and J. Pečarić, Generalizations of majorization inequality via Lidstone's Polynomial and their applications, *Communications in Mathematical Analysis*, 19(2), (2016), 101–122
- 35) M. Adil Khan, J. Khan, and J. Pečarić, Generalizations of Sherman's inequality by Montgomery identity, *Electronic Journal of Mathematical Analysis and Applications*, 5(1) (2017) 1-16.
- 36) M. Adil Khan, Y. Khurshid and T. Ali, Hermite-Hadamard Inequality For Fractional Integrals Via Eta-Convex Functions, *Acta Mathematica Universitatis Comenianae*, 86(1) (2017), 153-164.
- 37) Yu-Ming Chu, M. Adil Khan, T. Ali and S. S. Dragomir, Inequalities for  $\alpha$ -fractional differentiable functions, *J. Inequal. Appl.* (2017) 2017: 93, 12 pages.
- 38) Khuram Ali Khan, M. Adil Khan and Uzma Sadaf, New refinement of Jensen-mercer's operator inequality and applications to means, *Punjab University Journal of Mathematics*, 49(2) (2017), 127- 151.
- 39) M. Adil Khan, T. Ali, S. S. Dragomir and M. Z. Sarikaya, Hermite-Hadamard type inequalities for conformable fractional integrals, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, (2017). doi:10.1007/s13398-017-0408-5.
- 40) M. Adil Khan, Dilda Pecaric and Josip Pecaric, Bounds for Shannon and Zipf-mandelbrot entropies, *Mathematical Method in Applied Sciences*, DOI: 10.1002/mma.4531, 2017.
- 41) M. Adil Khan, J. Khan, and J. Pečarić, Generalization of Jensen's and Jensen-Steffensen's inequalities by generalized majorization theorem, *Journal of Mathematical Inequalities* to 11(4) (2017), 1049–1074.
- 42) Yu-Ming Chu, M. Adil Khan, T. U. Khan and J. Khan, Some new inequalities of Hermite-Hadamard type for  $s$ -convex functions with applications, *Open Math.*, 15 (2017) 1414–1430.
- 43) M. Adil Khan, T. Ali and T. U. Khan, Hermite-Hadamard Type Inequalities with Applications, *Fasciculi Mathematici*, 59 (2017), 57-74.
- 44) M. Adil Khan, T. U. Khan, Parameterized Hermite-Hadamard type inequalities for fractional integrals, *Turkish J. Ineq.*, 1 (1) (2017), 26 –37.
- 45) Hamid Reza Moradi1, Mohsen Erfanian Omidvar, Muhammad Adil Khan and Kazimierz Nikodem, Around Jensen's inequality for strongly convex functions, *Aequationes Mathematicae*. 92(1) (2018), 25-37. DOI 10.1007/s00010-017-0496-5.
- 46) Yu-Ming Chu, M. Adil Khan, A. Kashuri, R. Liko, Some new Ostrowski type fractional integral inequalities for generalized  $(r; s; m; ')$ -preinvex functions via caputo  $k$ -fractional derivatives, *Journal of Fractional Calculus and Applications*, 9(2) (2018), 163-177.
- 47) M. Adil Khan, S. Begum, Y. Khurshid, Y. Ming-Chu, Ostrowski Type Inequalities Involving Conformable Fractional Integrals, *J. Inequal. and Appl* 70 (2018), 1-14.
- 48) M. Adil Khan, Y. Khurshid, S. S. Dragomir and Rizwan Ullah, Inequalities of the Hermite-Hadamard type with applications, *Punjab University Journal of Mathematics*, 50(3), 2018,1-12.
- 49) M. Adil Khan, Yu-Ming Chu, A. Kashuri, R. Liko, G. Ali, New Hermite-Hadamard inequalities for conformable fractional integrals, *Journal of Function Spaces*, 2018, Article ID 6928130, 9 pages, <https://doi.org/10.1155/2018/6928130>.

- 50) Ying-Qing Song, M. Adil Khan, S. Zahir Ullah, Y. Ming-Chu, Integral inequalities for strongly convex functions, *Journal of function Spaces*, Volume 2018, Article ID 6595921, 8 pages.
- 51) T. Ali, M. Adil Khan, Q. Din and A. Kilicman, On the refined Hermite- Hadamard inequality, *Mathematical Sciences and Applications E-Notes*, 6 (1) (2018), 85-92.
- 52) Shanhe Wu, Muhammad Adil Khan, Abdul Basir and Reza Saadati, Some majorization integral inequalities for functions defined on rectangles, *Journal of Inequalities and Applications*, 146 (2018), 1-13.
- 53) M. Adil Khan, A. Iqbal, M. Suleman, Y. Chu, Hermite-Hadamard Type Inequalities for Fractional Integrals Via Green Function, *J. Inequal. And Appl.*, 161, (2018), 1-15. <https://doi.org/10.1186/s13660-018-1751-6>
- 54) A. Iqbal, M. Adil Khan, Sana Ullah and A. Kashuri, Chu, Hermite-Hadamard type inequalities pertaining conformable fractional integrals and their applications, *AIP advances*, 8, 075101 (2018), 1-18.
- 55) A. Kashuri, R. Liko, M. Adil Khan, Conformable fractional integral inequalities of Hermite-Hadamard type for twice differentiable generalized beta (r; g)-Preinvex Functions, *Allahabad Math. Soc*, 33(1), (2018), 65-95.
- 56) M. Adil Khan, Y. Khurshid, Tingsong Du and Yu Ming Chu, Generalization of Hermite-Hadamard Type Inequalities via Conformable Fractional Integrals, *Journal of Function Spaces*, Volume 2018, Article ID 5357463, 12 pages (<https://doi.org/10.1155/2018/5357463>).
- 57) M. Adil Khan, Zaid Mohammad Al-sahwi and Yu Ming Chu, New estimations for Shannon and Zipf-Mandelbrot entropies, *Entropy*, 20 (608), (2018), 1-10.
- 58) M. Adil Khan, M. Aizaz Ali and Tingsong Du, New parametric Hadamard type inequalities with applications, *Electronic Journal of Mathematical Analysis and Applications* 6(2) 2018, 172-184.
- 59) M. Adil Khan, J. Khan, and J. Pečarić, On Jensen's Type Inequalities via Generalized Majorization Inequalities, *FILOMAT*, 32(16) (2018), 5719–5733.
- 60) M. Adil Khan, Dilda Pecaric, J. Pecaric, On Zipf-Mandelbrot entropy, *Journal of Computational and Applied Mathematics*, 346 (2019) 192–204.
- 61) M. Adil Khan, Tahir Ullah Khan, Generalized conformable fractional operators, *Journal of Computational and Applied Mathematics*, 346 (2019) 378–389.
- 62) Chunyan Luo, Tingsong Du, Muhammad Adil Khan, Artion Kashuri, Yanjun Shen, Some k-fractional integrals inequalities through generalized,  $\lambda_{\phi m}$ -MT-preinvexity, submitted to *journal of computational analysis and applications*, 27(4) 2019, 690-705.
- 63) Yu-Ming Chu, A. Kahuri, R. Liko, M. Adil Khan, Hermite-Hadamard type fractional integral inequalities for mt(r;g;m; verphi)-preinvex functions, *Journal of Computational Analysis and Applications*, 26(8), 2019, 1487-1503.
- 64) Y. Khurshid, M. Adil Khan, and Yu Ming Chu, Hermite-Hadamard-Fejer Inequalities for Conformable Fractional Integrals via Preinvex Functions, *Journal of Function Spaces*, Volume 2019, Article ID 3146210, 9 pages.
- 65) Y. Khurshid, M. Adil Khan, and Yu Ming Chu, Generalized inequalities via GG-convexity and GA-convexity, *Journal of Function Spaces*, Volume 2019, Article ID 6926107, 8 pages.
- 66) M. Adil Khan, Shan-He Wu, Hidayat Ullah, Yu-Ming Chu, Some discrete majorization type inequalities on rectangles, *Journal of Inequalities and Applications*, 2019, 2019, Article 16, 18 pages.
- 67) M. Adil Khan, Syed Zaheer Ullah and Y. Chu, The concept of coordinate strongly convex functions and related inequalities, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A, Matemáticas*, 113 (2019), 2235–2251. <https://doi.org/10.1007/s13398-018-0615-8>.



- 68) S. Zaheer Ullah, M. Adil Khan, Y. Chu, Majorization Theorems for strongly convex functions. *Journal of Inequalities and Applications*, 2019, Article 58, 13 pages. doi.org/10.1186/s13660-019-2007-9.
- 69) M. Adil Khan, Y. Khurshid, Y. Chu, Hermite-Hadamard Type Inequalities via the Montgomery identity, *Communications in Mathematics and Applications*, 10(1) (2019), 85–97.
- 70) S. Zaheer Ullah, M. Adil Khan, Z. A, Khan, Yu-Ming Chu, Integral Majorization Type Inequalities for the Functions in the Sense of Strongly Convexity, *Journal of Function Spaces*, Volume 2019, Article ID 9487823, 11 pages. https://doi.org/10.1155/2019/9487823.
- 71) M. Adil Khan, M. Hanif, Z. A, Khan, K. Ahmad, Yu-Ming Chu, Association of Jensen inequality for s-convex function, *Journal of Inequalities and Applications*, 2019, Article ID 162, 14 pages. https://doi.org/10.1186/s13660-019-2112-9.
- 72) Shanhe Wu, Muhammad Adil Khan, Hidayat Ullah Haleemzai, Refinements of majorization inequality involving convex functions Via Taylor's theorem with mean value form of the remainder, *Mathematics*, 7(8), 663, 2019, 1-7; doi:10.3390/math7080663.
- 73) M. Adil Khan , Y. Khurshid, On parametrized Hermite-Hadamard type inequalities , *FACTA UNIVERSITATIS (NI'S)*, Ser. Math. Inform. 34(2) (2019), 213-229.
- 74) S. Zaheer Ullah, M. Adil Khan, Yu-Ming Chu, A note on generalized convex functions, *Journal of Inequalities and Applications*, (2019) Article ID 291, 10 pages, https://doi.org/10.1186/s13660-019-2242-0.
- 75) M. Adil Khan, Đilda Pečarić and Josip Pečarić, Bounds for Csiszar divergence and hybrid Zipf-mandelbrot entropy, *Mathematical Methods in Applied Sciences*, 42 (2019), 7411–7424.
- 76) M. Adil Khan, Noor Mohammad, Eze R. Nwaeze, Y. Chu, Quantum Hermite-Hadamard inequality by means of a green function, *Advances in Difference Equations*, 2020, Article ID 99, 20 pages.
- 77) M. Adil Khan, Đilda Peča Tingsong Du, Hao Wang, Muhammad Adil Khan, Yao Zhang, Certain integral inequalities considering generalized m-convexity on fractal sets and their applications, *Fractals*, 27(7) (2019) 1950117, 17 pages. DOI: 10.1142/S0218348X19501172.
- 78) S. Zaheer Ullah, M. Adil Khan, Yu-Ming Chu, Generalization of Favavard's and Berwald's inequalities for strongly convex functions, *Communications in Mathematics and Applications*, 10(4), (2019) 693–705.
- 79) Y. Khurshid, M. Adil Khan and Y. Chu, Hermite-Hadamard type inequalities involving conformable fractional integrals, *J. Computational Analysis And Applications*, 28(4), (2020), 585-604.
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- i. Muhammad Adil Khan, Dilda Pečarić and Josip Pečarić, Zaid Mohammad Al-Sahwi, On Zipf-Mandelbrot entropy, Monographs in inequalities 15, Element, Zagreb, 2019 pp. 29-44.
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## 11 **Research Project**

Research project on "Refinements of Some Inequalities for Convex Functions and Related Results" under Startup Research Grant HEC.

## 12 **Award**

Received Gold Medal in M.Sc

## 13 **References**

- Prof. Dr. Josip Pečarić  
Faculty of Textile Technology,  
University of Zagreb, Zagreb - Croatia.  
Email: [pecaric@mahazu.hazu.hr](mailto:pecaric@mahazu.hazu.hr)
- Prof. Ivan Perić  
Faculty of Food Technology and Biotechnology,  
University of Zagreb, Zagreb, Croatia  
E-mail : [iperic@pbf.hr](mailto:iperic@pbf.hr)
- Prof. Dr. Gulzar Ali Khan  
Department of Mathematics, Qurtuba University Peshawar  
(Former Dean of the Faculty Physical and Numerical Sciences,  
University of Peshawar)  
Email: [mshahkar95@yahoo.com](mailto:mshahkar95@yahoo.com)