

# CURRICULUM VITAE (CV)



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Title of Ph.D Dissertation: **Homology and Local Cohomology for Banach Algebras**

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<b>Google Scholar:</b> Citations: 5476 h-index: 37 i10-index: 139	<b>Scopus:</b> Citations: 3144 h-index: 27	<b>Publons:</b> Citations: 2962 h-index: 26	<b>MathSciNet</b> Citations: 1911
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## (II) List of Publications:













### Ten selected Papers













- 📄 M. S. Moslehian, G. A. Muñoz-Fernández, J.B. Seoane-Sepulveda, A. M. Peralta, Similarities and differences between real and complex Banach spaces. An overview and recent developments, *Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat. (RACSAM)*, 116 (2022), no. 2, 88. 1-80.
- 📄 H.G. Dales and M.S. Moslehian, Stability of mappings on multi-normed spaces, *Glasgow Math. J.* 49 (2007), no.2, 321-332.
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- 📄 R. Eskandari, M. Frank; V. Manuilov, M.S. Moslehian, B-spline interpolation problem in Hilbert  $C^*$ -modules, *J. Operator Theory* 86 (2021), no. 2, 275-298.
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- 📄 R. Eskandari, M.S. Moslehian, and D. Popovici, Operator equalities and characterizations of orthogonality in pre-Hilbert  $C^*$ -modules, *Proc. Edinb. Math. Soc.* (2) 64 (2021), no. 3, 594--614.
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- 📄 M. Mirzavaziri and M.S. Moslehian, Automatic continuity of  $\sigma$ -derivations on  $C^*$ -algebras, *Proc. Amer. Math. Soc.* 134 (2006), no. 11, 3319-3327.
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## Research Papers

-  N. Dzhusoeva, M.S. Moslehian, M. Pliev, and M. Popov, Operators taking values in Lebesgue-Bochner spaces, *Proc. Amer. Math. Soc.* (to appear).
-  E. Faryad, D. Khurana, M.S. Moslehian, and D. Sain, A generalization of the Roberts orthogonality: From normed linear spaces to  $C^*$ -algebras, *Monatsh. Math.* (to appear).
-  R. Eskandari, X. Fang, M.S. Moslehian, Q. Xu, Pedersen-Takesaki operator equation and operator equation  $AX=B$  in Hilbert  $C^*$ -modules, *J. Math. Anal. Appl.* (to appear).
-  R. Kaur, M.S. Moslehian, M. Singh, A generalized Wigner-Yanase skew information, *Linear Multilinear Algebra* (to appear).
-  S. Abedi and M. S. Moslehian, Extensions of the Hilbert-multi-norm in Hilbert  $C^*$ -modules, *Positivity* (to appear).
-  P. Bhunia, S. Jana, M. S. Moslehian and K. Paul, Improved inequalities for the numerical radius via Cartesian decomposition, *Funct. Anal. Appl.* (to appear).
-  M. Kian and M.S. Moslehian, Matrix inequalities related to power means of probability measures, *Linear Multilinear Algebra* (to appear).
-  M. Ghaderi Aghideh, J. Rooin, and M.S. Moslehian, Improved inequalities for operator space numerical radius, *Math. Rep.* (to appear).
-  E. Faryad, M.S. Moslehian, and A. Zamani, Roberts Numerical Radius Orthogonality, *Linear Multilinear Algebra* (to appear).
-  J. Rooin, S. Rajabi, and M.S. Moslehian, Extensions of  $p$ -angular distance inequalities in normed spaces, *Ric. Mat.* (to appear).
-  S. Abedi and M. S. Moslehian, Power-norms based on Hilbert  $C^*$ -modules, *Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat. RACSAM* 117 (2023), no. 1, Paper No. 7.














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-  S. Habibzadeh, J. Rooin, and M.S. Moslehian, Operator Ky Fan type inequalities, *Linear Algebra Appl.* 556 (2018), 220–237.
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- M.S. Moslehian, A swallow who did not return (In the memory of Maryam Mirzakhani (I)), *Danestaniha* no. 184 (2017), p. 59. (in Persian)



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- M.S. Moslehian, Take a peek at the research journals in mathematics, *J. Math Soc.* 1 (2017), no. 4, 1-5. (in Persian)
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- M. Amyari and M.S. Moslehian, Godestein theorem and its philosophic result, *Golchin-e Riazi 2* (1994), no. 1. (in Persian)
- A.K. Mirmostafae and M.S. Moslehian, Infinitesimals in some function spaces, *Golchin-e Riazi 1* (1993), no. 2. (in Persian)

### Papers in Newspapers in Persian

- M.S. Moslehian, Testing the tested is a mistake! *Shargh* no. 4298, 9 Jun. 2022.
- M. S. Moslehian, The heart of mathematics does not beat properly in our country! *Shargh* no. 4257, 14 Apr. 2022.
- M.S. Moslehian, The irreversible journey of unblown flowers (Brain Drain), *Shargh* no. 4188, 5 Jan. 2022.
- M.S. Moslehian, The Scientometrics of Maryam Mirzakhani's works (In the memory of Maryam Mirzakhani (III)), *Shargh* no. 2912, 16 Jul., 2017.
- M.S. Moslehian, Let us learn to trust to researchers, *Shargh* no. 2394, 9 Sep. 2015.
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- A round table with M.S. Moslehian, M. Mirzavaziri and H. Najafi: Electronic publications, *Shargh*, no. 2212, 15 Jan. 2015.
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- Interviewer, An interview with M.S. Moslehian about Mathematics, *Jam-e-jam*, no. 2877, 22 Jun. 2010.

- M.S. Moslehian, Ph.D in nowhere land, *Jam-e-jam*, no. 2839, 6 May 2010.
- Reporter, I have good teachers: A dialogue with M.S. Moslehian, *Shahr-Ara*, no. 131, 29 Oct. 2009.
- M.S. Moslehian, How to give a good lecture, *Jam-e-jam*, no. 2654, 7 Sep. 2009.
- M.S. Moslehian, An interview with M. Mirzavaziri as a novelist mathematician, *Jam-e-jam*, no. 1854, 4 Nov. 2006.
- Interviewer, An interview with M.S. Moslehian on Postmodernism, *Ghods*, no. 4542, 14 Oct. 2003.
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- M.S. Moslehian, Book review: " The common sense of science" by J. Bronowski, *Khorasan*, no. 14447, 1999.
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### Translations

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- R. Hersh, Independent thought, translated into Persian by M.S. Moslehian and F. Rahbarnia, *J. Math. thought and culture of Iranian Math. Soc.*, Vol 21, No. 2, 2002.
- H. Euler, A history of  $2+2=5$ , translated into Persian by M.S. Moslehian, *Roshd-e Amouzesh-e Riazi*, No. 62, 2001.
- P.R. Halmos, How to be a mathematician, translated into Persian by M.S. Moslehian, *Roshd-e Amouzesh-e Riazi*, No. 57, 2000.
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- R. Hersh, Let's teach philosophy of mathematics, translated into Persian by M.S. Moslehian, *Nashr-e riazi*, Vol.7, No. 1, 1995.

### Books

- Richard M. Aron (ed.), Mohammad Sal Moslehian(ed), Ilya M. Spitkovsky(ed.), Hugo J. Woerdeman (ed.), *Operator and Norm Inequalities and Related Topics*, Trends in Mathematics Series. Cham: Birkhäuser (ISBN 978-3-031-02103-9/hbk). xiii, 822 p. (2022).
- Pintu BhuniaSilvestru Sever DragomirMohammad Sal MoslehianKallol Paul, *Lectures on Numerical Radius Inequalities*, Infosys Science Foundation Series in Mathematical Sciences. Springer (ISBN 978-3-031-13669-6/hbk). x, 210 p. (2022).

- A. Niknam and M.S. Moslehian, *Topology*, Ferdowsi Univ. Press, Mashad, 2005.
- M.S. Amer Paihan and M.S. Moslehian, *Who is the Winner? (Math. & Election)*, Sokhan Gostar Inc., Mashhad, 2005.
- M.S. Moslehian, *Philosophy of Mathematics*, Vazhegan Kherad, Mashhad 2005.

### **(III) Participation in International Conferences and Workshops**

1. The International Congress of Mathematicians, Berlin-Germany, 1998.
2. The 8th Conference of International Linear Algebra Society, Barcelona-Spain, 1999, a talk on "Contractibility of incidence algebras of upper triangular matrices".
3. The First Workshop on Algebra, Tarbiat Modarres Univ., Tehran-Iran, 1996.
4. The First Workshop on  $C^*$ -algebras, Ferdowsi Univ., Mashhad-Iran, 2001, a lecture on "Hilbert  $C^*$ -modules".
5. Balticon2001, Odense-Denmark, 2001, a talk on "Biprojective Banach algebras".
6. The International Congress of Mathematicians, Beijing-China, 2002, a talk on "Characterization of closed ideals of  $C(X)$ ".
7. The Second Workshop on  $C^*$ -algebras, Ferdowsi Univ., Mashhad-Iran, 2003, a lecture on "Automatic continuity".
8. Topological Algebras, their applications and related topics, Bedlewo-Poland, 2003, a talk on "Cohomology of triangular Banach algebras".
9. The 20th International Conference on Operator Theory, Timisoara, Romania, June 30 - July 5, 2004, a talk on "n-homomorphisms".
10. Banach Algebras and their Applications, Bordeaux, France – 3-13 Jul., 2005, a talk on "Hyers-Ulam Stability in Hilbert  $C^*$ -module".
11. The 5<sup>th</sup> International Conference on Topological Algebras and Applications (ICTAA 2005), University of Athens, Athens, Greece, June 27-July 1, 2005, a talk on "Hyers-Ulam-Rassias stability of derivations".
12. Workshop on Functional Analysis, University of Leeds, Leeds, UK, 4-7 Jul., 2006.
13. Conference on Banach Algebras, Universite Laval, Quebec, Canada, 4-12 Jul., 2007.
14. Conference on Inequalities and Applications '07, De La Motte Castle, Noszvaj, Hungary, 9-15 Sep., 2007.
15. Mathematical Inequalities and Applications 2008, Conference in honour of Prof. Josip Pečarić on the occasion of his 60th birthday, Trogir - Split, Croatia, 8-14 Jun., 2008.
16. Workshop on Operator Theory and Operator Algebras, Osaka, Japan, 20-22 Nov., 2008.

17. **Mathematical Inequalities and Applications 2010, Lahore, Pakistan, 7-13 Mar., 2010.**
18. **The conference on Operators, Spaces, Algebras, Modules, Zagreb, Croatia, 1-4 Mar., 2010.**
19. **The International Congress of Mathematicians, Hyderabad, India, 19-27Aug., 2010.**
20. **Mathematical Inequalities and Nonlinear Functional Analysis with Applications, Jinju, Korea, 25-29 Jul., 2012.**
21. **Research on Structures of operators via methods in geometry and probability theory, Kyoto, Japan, 5-7 Nov., 2012.**
22. **The 4<sup>th</sup> International Workshop on Matrix Analysis and Applications, Konya, Turkey, 2-5 July 2013.**
23. **International Conference on Matrix Analysis and Applications, Shanghai, China, 27-29 December 2013.**
24. **The International Congress of Mathematicians, Seoul, Korea, August 13–21, 2014.**
25. **Conference on Operator Algebras and Applications, Cheongpung, Korea, August 8-12, 2014.**
26. **Noncommutative Probability Theory and Related Topics, March 9-17, 2016, Cheongju, Korea.**
27. **The 7th joint International Conference of the Georgian Mathematical Union and Georgian Mechanical Union, Sep. 5-9, 2016, Batumi, Georgia.**
28. **International Workshop on Algebra, Analysis and Operator Theory, Vladikavkaz, Russia, Feb. 9-10, 2017.**
29. **The Workshop on matrices and operators, Shanghai, China, June 9-14, 2017.**
30. **The International Congress of Mathematicians, Rio de Janeiro, Brazil, August 1–9, 2018.**
31. **The 5th International Conference on Matrix Inequalities and Matrix Equations (MIME2019), Guilin, China June 7-10, 2019.**
32. **International Conference on Analysis, Algebra, Combinatorics, and their Applications, Kolkata, India, 20-21 January, 2020.**
33. **International Workshop on Hilbert C\*-Modules Online Weekend, in memory of William L. Paschke (1946-2019), Russia, December 5-6, 2020**

#### **(IV) Career History**

<b>Position</b>	<b>Organization</b>	<b>City/Country</b>	<b>from(year) to (year)</b>
<b>Lecturer</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>1992-1999</b>
<b>Asst. Prof .</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>1999-2003</b>
<b>Assoc. Prof.</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2003-2007</b>
<b>Full Prof.</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2007-present</b>

<b>Vice head of Dept of Math</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2002-2003</b>
<b>Vice Dean of Faculty of Math Sci. (Administrative affairs)</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2003-2004</b>
<b>Director of Center of Excellence in Analysis on Algebraic Structures</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2007-Present</b>
<b>General Director of Graduate Studies at Ferdowsi Univ. Mashhad</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2008-2012</b>
<b>President of Research Center for Methods in Math. Education</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2010-2014</b>
<b>Director of Curriculum Development</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2010-2012</b>
<b>Vice Dean of Faculty of Math Sci. (Research affairs)</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2016-2018</b>
<b>General Director in Research at Ferdowsi Univ. Mashhad</b>	<b>Ferdowsi Univ. Mashhad</b>	<b>Mashhad/Iran</b>	<b>2018-2022</b>
<b>President of the Iranian Mathematical Society</b>	<b>Iranian Math. Soc.</b>	<b>Tehran/Iran</b>	<b>2021-2024</b>

### **(V) Awards, Honors, Grants**

1. Winner of the 13<sup>th</sup> Annual Iranian Student Competition in Mathematics, Iran Math. Soc., Tehran, Iran, 1989.
2. Distinguished M.Sc. Student, Ferdowsi Univ., Mashhad, Iran, 1991.
3. Obtained first class in B.Sc., Ferdowsi Univ., Mashhad, Iran, 1989.
4. Elected as a distinguished researcher among academic members of Ferdowsi University, Mashhad, December 2002.
5. Elected as a distinguished researcher in Ferdowsi Festival, Mashhad, December 2003.
6. Elected as a distinguished teacher among academic members of Ferdowsi University, Mashhad, May 2005.
7. Elected as a distinguished researcher in Basic Sciences among academic members of Ferdowsi University (and certificate from the Ministry of Science, Research and Technology), Iran, January 2007.
8. Elected as a distinguished researcher in Basic Sciences among academic members of Razavi Khorasan Province (and certificate from the governor general), Iran, January 2008.

9. A distinguished reviewer selected by FIZ Karlsruhe (European Math. Soc.), 2010.

10. Elected as the best speaker in the Conference in Mathematical Inequalities and Applications, Lahore, 7-13 March 2010.

11. A Gold medal as the distinguished academic member in Basic Sciences among academic members of Ferdowsi University of Mashhad by Ferdowsi Academic Foundation, 2011.

12. Elected as a distinguished researcher in Basic Sciences among academic members of Razavi Khorasan Province (and certificate from the governor general), Iran, January 2016.

13. Elected as a distinguished researcher in Basic Sciences among Iranian academic members (and certificate from the vice president of Iran), Iran, December 2018.

14. Allameh Tabatabaei Prize, in Basic Sciences among Iranian academic members (and certificate from the vice president of Iran), Iran, December 2019.

## (VI) Professional Memberships

Role	Organization	Office held	from (year) to (year)
Ordinary member	Amer. Math. Soc.	USA	1991-present
Ordinary member	Iranian Math. Soc.	Tehran, Iran	1983-present
Reciprocity member	London Math. Soc.	London, England	1999-2000
Ordinary member	Inter. Lin. Alg. Soc.	USA	1999-present
Ordinary member	European Math. Soc.	Berlin	2007-present

## (VII) Visiting Scholars

- A senior associate researcher at the *International Centre for Theoretical Physics (ICTP, Trieste)* for the period of 2012-2017.
- Sabbatical leaves at the *University of Leeds, Leeds*, 2006.
- Sabbatical leaves at the *Karlstad University, Sweden*, 2015.
- A visiting scholar at the *Delhi Centre of the Indian Statistical Institute, India*, 2005.
- A visiting scholar at the *Research Institute for Mathematical Sciences, Kyoto, Japan*, 2012.
- A guest professor at *Lebanese University, Lebanon*, 2013.
- A participant in conferences/meetings in and visitings to Germany (ICM-1998, 2015), Spain (1999, 2015), Denmark (2001), China (ICM-2002, 2014, 2017, 2019), Poland (2003, 2015), United Arab Emirates (2003, 2009), Romania (2004), Turkey (2004, 2009, 2010, 2013), Turkmenistan (2004), France (2005, 2015), Greece (2005), India (2005, ICM-



2010, 2020), UK (2006), Canada (2007), Hungary (2007, 2009), Malaysia (2008), Croatia (2008, 2010), Japan (2008, 2012), Austria (2009), Pakistan (2010), Bulgaria (2010), Thailand (2011), Qatar (2012, 2014), South Korea (2012, ICM-2014, 2016), Lebanon (2013), Kuwait (2014), Norway (2015), Finland (2015), Slovenia (2015), Italy (2015), Sweden (2015), Armenia (2016), Georgia (2016), Russia (2017), Brazil (ICM-2018).

### **(VIII) Avocations**

1. Internet
2. Music
3. Movie

### **(IX) Teaching Courses**

(a) Undergraduate: Calculus I-II, Analysis I-II-III, Topology, Complex Functions, Math. Logic, History of Mathematics, Philosophy of Mathematics, Foundation of Mathematics, Ordinary Differential Equations, Linear Algebra, Elementary Functional Analysis.

(b) Postgraduate (MSc and PhD): Real Analysis I-II, Operator Theory, Functional Analysis I-II, Banach Algebras, Topics in Functional Analysis, Topics in Banach Spaces, Matrix Analysis, Topics in Operator Theory I-II,  $C^*$  &  $W^*$ -Algebras.

### **(X) Postgraduate Students under the Supervision/Advisory**

(a) MSc:

1. Ali Akbarnia, Positive definite kernels and Hilbert  $C^*$ -modules, 2000.
2. Fateme Negahban, Amenability of triangular Banach algebras, 2002.
3. Roghaie Jalal Shakhoei, Morphisms of Hilbert  $C^*$ -modules, 2002.
4. Ali Akbar Maskani, Multiplicative linear functionals, 2003.
5. Khalil Ekrami, Preserving linear mappings, 2004.
6. Arsalan Ansari, Reverse of triangle inequality in inner product spaces, 2005.
7. Mohammad Darvish-Zadeh,  $n$ -inner product spaces, 2005.
8. Assieh Saadatpour, Functional equations in Function spaces, 2006.
9. Kazem Anvari, Wigner Equation in Hilbert  $C^*$ -modules, 2007
10. Amir Ali Madanifar, generalized inverses in Banach algebras, 2007
11. Safoura Jafar-Zadeh, Banach-Stone theorem, 2008
12. Sanaz Pouya, Commutators, 2009.
13. Hamed Najafi, Operator convex functions, 2010.
14. Ameneh Darvish, Operator Bohr's inequality, 2010.
15. Mostafa Kafi Moghaddam, Operators Achieving Norm, 2011.
16. Ali Jafari, Variance and covariance in operator algebras, 2011.
17. Mojtaba Bakherad. Inequalities related to  $p$ -Scatten norms, 2011.
18. M. Mahvelati, Daugavet property, 2012.
19. Zahra Pourfreidouni, Generalization of Lax-Milgram theorem, 2012.
20. Fatemeh Faraji, Ky Fan inequaities, 2012
21. Farzaneh Falizkaran, Hermite-Hadamard Inequality, 2012
22. F. Abdollahzadeh, Orthogonality in normed spaces, 2014.
23. Farideh Omrani, Exact and approximate operator parallelism, 2015.
24. Elham Bazmi, Triangle Inequality in Hilbert  $C^*$ -modules, 2015.
25. Mohammad Barati, Hilbert-type inequalities, 2019.
26. Mohaddeseh Rahnama, Block numerical range of block operator matrices, 2019.

27. Naghmeh Shahami, Numerical radius inequalities for certain operator matrices, 2020.
28. Faezeh Vahedi Joo, Operator norm attainment and Birkhoff-James orthogonality, 2020.
29. Razieh Alvani, Operator type Cauchy-Schwarz inequalities and their reverses, 2020.
30. Mohaddeseh Rahnama, Block numerical range of block operator matrices, 2019.

**(b) PhD:**

- Freydoon Rahbarnia, Stability of Functional Equations, 2007. (Supervisor)
- Abolfal Niazi, Generalized derivations, 2008. (Supervisor)
- Ghadir Sadeghi, Perturbation of Mappings in Banach spaces, 2009. (Supervisor)
- Farzad Dadipour, Operator Dunkl-Williams Inequalities, 2011. (Supervisor)
- Mohsen Kian, Some Classes of Operator Functions, 2012. (Supervisor)
- S.M.S. Nabavi Sales, Hyponormal Type Operators and Aluthge Transformations, 2012. (Supervisor)
- Ali Morassaei, Operator Inequalities on Hilbert Spaces, 2012. (cosupervisor)
- Hamed Najafi, Operator functions and types of positive maps, 2014. (Supervisor)
- Mojtaba Bakherad, Norm inequalities for operators, 2014. (Supervisor)
- Akram Alikhani, Operator inequalities and m-convexity, 2015. (cosupervisor)
- Ali Zamani, Orthogonality in Normed Spaces and Orthogonal Operators, 2015. (Supervisor)
- Mostafa Sattari, Inequalities for Numerical Radius, 2016. (Supervisor)
- Zeinab Mousavi, Matrix and Operator Equations, 2016. (cosupervisor)
- Ali Dadkhah, Operator inequalities for positive linear mappings, 2017. (Supervisor)
- Mehdi Vosough, Operator and matrix equations, 2017. (Supervisor)
- Ali Talebi, Noncommutative Probability Spaces, 2018. (Supervisor)
- Somayeh Habibzadeh Kojidi, Norm and operator inequalities with some applications, 2018. (cosupervisor)
- Masoumeh Ghaderi Aghideh, Some topics in numerical radius, 2019. (cosupervisor)
- Setareh Rajabi, Angular distance, 2020 (cosupervisor).
- Elias Faryad, Orthogonality in normed spaces and orthogonal preserving mappings, 2021. (Supervisor)
- Mostafa Ghaemi, Reproducing kernel Hilbert  $C^*$ -modules, 2021. (Supervisor)

**(c) Advisor for Ph.D.**

- Kamran Sharifi (advisor)
- Seddigeh Shadkam (advisor)
- Toktam Aghasizadeh (co-advisor)
- Maryam Khosravi (advisor)
- Mostafa Mahdavi (advisor)
- Mahnaz Chakoshi (advisor)
- Mohsen Erfanian (advisor)
- Azam Erfanian Attar (advisor)
- Omid Pourbahri (advisor)
- Gholamreza Abbaspour (advisor)
- Alireza Janfada (advisor)

- Zahra Alinezhad (advisor)
- Mohammad Gholampour (advisor)
- Ramin Faaal (advisor)
- Alireza Khoddami (advisor)
- Marzieh Negahban (advisor)
- Abolfazl Nezhad Ali (advisor)

**Postdoc:**

1. Ali Zamani (2018)
2. Ali Talebi (2020)
3. Ali Dadkhah (2021)

## **(XI) Some Research Projects**

1. "The Counterexamples in Functional Analysis Homepage", a website maintained by M.S. Moslehian at the following URL:  
<http://www.um.ac.ir/~moslehian/cfa/cfa.htm>, Ferdowsi University
2. "Course Material for Teaching Non-Euclidean Geometry in Secondary Schools", Ferdowsi University.
3. "Topological Homology of Triangular Banach Algebras", Institute for Studies in Theoretical Physics and Mathematics (IPM- Tehran)
4. "Factorization of Operators", Institute for Studies in Theoretical Physics and Mathematics (IPM- Tehran).
5. "Stability of Derivations and Homomorphisms", Institute for Studies in Theoretical Physics and Mathematics (IPM- Tehran).
6. "Hyers-Ulam-Rassias Stability of functional equations", Iran National Science Foundation (INSF- Tehran).
7. Stability of Functional Equations, Centre of Excellence in Analysis on Algebraic Structures, Ferdowsi University, Mashhad.
8. Orthogonal Stability of Additive Type Equations, Centre of Excellence in Analysis on Algebraic Structures, Ferdowsi University, Mashhad.

**Research Projects in Ferdowsi University of Mashhad:**

- n-homomorphisms
- Cohomology of Banach Algebras
- Stability of Ternary Structures
- p-Angular distance
- Generalized inverse of Gram operators
- Morita equivalance for Hilbert  $C^*$ -modules
- Applications of functional calculus for self-adjoint operators
- The Hermitian solution to a system of adjointable operators equations
- Inequalities related to positive maps
- f-divergence functional
- Landau relations for inner product type integral transformers
- Convex functions and its generalizations

- Relationship between the Hyers-Ulam stability and the Moore-Penrose inverse
- Heinz Inequality and its consequences
- Extension of Kantorovich Result
- Weakly 2-positivie maps
- Operator means and their applications
- Generalization of the Corach-Porta-Recht Theorem
- Q-cClass Functions
- A generalization of the Buzano inequality
- Hermite-Hadamard inequality
- Generalization of a generalized inequality of second type in normed spaces
- Characterization of equality in a generalized triangle inequality
- Eigenvalue relations for matrices
- Operator versions of the Aczel inequality
- Quadratic functional equation in Menger probabilistic normed spaces
- Generalized Norm Inequalities of Clarkson Type
- Approximate Operators in operator algebras
- Properties of Aluthge transformation
- Refinements of Choi-Davis-Jensen
- KSGNS type constructions for alpha-completely positive maps on Krein  $C^*$ -modules
- Generalized Norm Inequalities of Clarkson Type

41. Operator Algebras on Hilbert Spaces, Iran National Science Foundation (INSF- Tehran), 2017-2018.  
 42. Norm and Operator inequalities in normed spaces and operator algebras, Iran National Science Foundation (INSF- Tehran), 2017-2018.

## **(XII) Computer proficiency**

HTML and LaTeX.

## **(XIII) Membership in Organizing Committee of Conferences and etc**

1. Scientific and organizing committees of the 7th Seminar on Analysis and its Applications, Mashhad, 1995.
2. Scientific Committee of the 5th International Conference on Mathematics Education, Mashhad, 2001.
3. Organizing committee of the first Workshop on  $C^*$ -algebras, Mashhad, 2001.
4. Organizing and Scientific Committees of the 33rd Iranian Mathematics Conference, Mashhad, 2002.
5. Chairman of the second Workshop on  $C^*$ -algebras (Automatic Continuity), Mashhad, 2003.
6. Chairman of the first workshop on “Analysis on Matrices”, Mashhad, 2004.
7. Chairman of the workshop on “Hilbert  $C^*$ -modules”, Mashhad, 2005.
8. Chaiman of 16<sup>th</sup> Seminar on Mathematical Analysis and its Applications, Mashhad, 2007.

9. A member of organizing committee of the 17<sup>th</sup> Seminar on Mathematical Analysis and its Applications, Arak, 2008.
10. A member of organizing committee of the 5<sup>th</sup> Seminar on Linear Algebra and its Applications, Babolsar, 2009.
11. A member of organizing committee of the 16<sup>th</sup> Seminar on Mathematical Analysis and its Applications, Tehran, Iran, 2009.
12. A member of organizing committee of the 20<sup>th</sup> Seminar on Mathematical Analysis and its Applications, Maraghe, Iran, 2012.
13. A member of scientific committee of the 41<sup>th</sup> Annual Iranian Conference, Urmia, Iran, 2010.
14. A member of scientific committee of the 42<sup>th</sup> Annual Iranian Conference, Rafsanjan, Iran, 2011.
15. A member of scientific committee of the 43<sup>th</sup> Annual Iranian Conference, Tabriz, Iran, 2012.
16. Scientific chairman of the 44<sup>th</sup> Annual Iranian Conference, Mashhad, Iran, 2013.
17. The scientific chairman of the 7<sup>th</sup> Seminar on Linear Algebra and its Applications, Mashhad, Iran, 2014.
18. A member of scientific committee of Conference of Mathematical Inequalities and Applications, Trogir, Croatia, 2014.
19. A member of scientific committee of Conference on Ulam's type stability, Rytro, Poland, 2014.
20. A member of scientific committee of the 47<sup>th</sup> Annual Iranian Conference, Karaj, Iran, 2016.
21. The Scientific chairman of the fourth Seminar on Functional Analysis and its Applications, Mashhad, Iran, 2-3 March 2016.
22. A member of scientific committee of the 6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 –18 August 2017.
23. A member of scientific committee of the 3rd Seminar on Operator Theory and its Applications, Mashhad, Iran, 8-9 March 2017.
24. A member of scientific committee of the 9th Pan African Congress of Mathematicians, Rabat (Morocco), July 3-7, 2017.
25. A member of scientific committee of the fifth Seminar on Functional Analysis and its Applications, Zanjan, Iran, 12-13 July 2017.
26. A member of scientific committee of Conference of Mathematical Inequalities and Applications, Trogir, Croatia, 2018.
27. The Scientific chairman of the 3rd Seminar on Operator Theory and its Applications, Bojnourd, Iran, 7-8 March 2018.

28. International Conference on Operator Theory 2018, April 30 - May 03, 2018, Hammamet, Tunisia.
29. A member of scientific committee of the 5rd Seminar on Operator Theory and its Applications, Zanjan, Iran, 13-14 March 2017.
30. Caucasian Mathematics Conference (CMC-III), Rostov-on-Don, RUSSIA, August 26-29, 2019.

### **(XIV) Membership in Editorial Boards**

1. Founder and the editor-in-chief of "*Banach Journal of Mathematical Analysis*", Springer, 2007-present.
2. Founder and the editor-in-chief of "*Annals of Functional Analysis*", Iran, Springer, 2010-present.
3. Founder and the editor-in-chief of "*Advances in Operator Theory*", Springer, 2016-present.
4. Editor-in-chief and a member of editorial board of "*Bulletin of Iranian Math. Soc.*", 2008-2011.
5. A member of editorial board of "*Bulletin of Malaysian Mathematical Science Society*", 2008-present.
6. A member of the editorial board of "*Involve*", 2009-present.
7. A member of the editorial board of "*Mathematical Inequalities and Applications*", 2009-present.
8. A member of editorial board of "*J. Math. Thought and Culture*"(Iranian Math. Soc.), 2004-2007.
9. A member of the editorial board of "*Journal of Egyptian Mathematical Society*", 2009-present.
10. A member of the editorial board of "*Cubo*", 2011-present.
11. A member of editorial board of "*Bulletin of Mathematical Analysis and Applications*", 2009-2018.
12. A member of editorial board of "*Topological Algebra and Applications*", 2012-Present.
13. A member of editorial board of "*Filomat*", 2013-Present.
14. A member of editorial board of "*Journal of Inequalities and Application*", 2013-2015.
15. A member of editorial board of "*Annales Universitatis Paedagogicae Cracoviensis. Studia Mathematica*", 2015-present.
16. A member of editorial board of "*Nonlinear Functional Analysis and Applications*", 2012-present.
17. A member of editorial board of "*Australian Journal of Mathematical Analysis Applications*", 2005-Present.

### **(XV) Services to Professional Communities**

1. A Reviewer of *Mathematical Reviews (American Math. Soc.)*, 2002-present.
2. A Reviewer of *Zentralblatt Math (European Math. Soc.)*, 2002-present.
3. Representative of *Iranian Math. Soc.* in Ferdowsi Univ. of Mashhad from 2001-2003.
4. Substitute Member of Executive Committee of *Iranian Math. Soc.*, 2004-2006.
5. A member of Executive Committee of *Iranian Math. Soc.* 2006-2012.
6. Founder of "Tusi Mathematical Research Group", Mashhad, Iran, 2007-present.
7. A member of the Academy of Science- I. R. Iran, 2015- present.
8. A member of the World Academy of Sciences (TWAS), 2023- present.
9. Referee for some National and International Research Journals such as

- *Proc. Royal. Soc. London- A (JCR)*
- *Glasg. Math. J. (JCR)*
- *Linear Algebra Appl. (JCR)*
- *Linear Multilinear Alg. (JCR)*
- *Amer Math. Monthly (JCR)*
- *J. Math. Anal. Appl. (JCR)*
- *J. Math. Phys. (JCR)*
- *Monatsh. Math.(JCR)*
- *Math. Nachr. (JCR)*
- *Positivity (JCR)*
- *Complex Anal. Oper. Theory (JCR)*
- *Houston J. Math. (JCR)*
- *Electron. J. Linear Algebra (JCR)*
- *Arch. der Math.*
- *Oper. Matrices (JCR)*
- *Rocky Mountain J. Math. (JCR)*
- *Indag. Math. (JCR)*
- *J. Phys. A (JCR)*
- *J. Approx. Theory (JCR)*
- *Appl. Math. Lett. (JCR)*
- *New York J. Math. (JCR)*
- *Period Math. Hungar. (JCR)*
- *Mediterr. J. Math. (JCR)*
- *Acta Applicandae Math. (JCR)*
- *Results in Math. (JCR)*
- *Acta Math. Sin. Engl. Ed. (JCR)*
- *J. Differ. Equ. Appl. (JCR)*
- *Publ. Math. Debrecen (JCR)*
- *Ukrainian Math. J. (JCR)*
- *Quaest. Math. (JCR)*
- *Abstr. Appl. Anal. (JCR)*
- *J. Funct. Space (JCR)*
- *J. Inequal. Appl. (JCR)*
- *Math Slovaca (JCR)*
- *Bull. Korean Math. Soc. (JCR)*
- *Filomat (JCR)*
- *Math. Comput. Modelling (JCR)*
- *Open Math. (JCR)*
- *Fuzzy Sets and Systems (JCR)*
- *Internat. J. Math. (JCR)*
- *J. Intell. Fuzzy Systems (JCR)*



- *Turkish J. Math (JCR)*
- *Comput. Math. Appl. (JCR)*
- *J. Appl. Anal. Comput. (JCR)*
- *Fixed Point Theory Appl. (JCR)*
- *Taiwanese J. Math. (JCR)*
- *Bol. Soc. Mat. Mex.(JCR)*
- *Ukrainian Math. J. (JCR)*
- *Math. Inequal. Appl. (JCR)*
- *Iranian J. Sci. Tech. (JCR)*
- *Iranian J. Fuzzy Syst. (JCR)*
- *Bull. Iranian Math. Soc. (JCR)*
- *Hacet. J. Math. Stat. (JCR)*
- *ScienceAsia (JCR)*
- *Internat. J. Phys. Sci. (JCR)*
- *An. Ştiinţ. Univ. Ovidius (JCR)*
- *J. Sci. Is. Repub. Iran (JCR)*
- *Discrete Dyn. Nat. Soc. (JCR)*
- *Commun. Math. (JCR)*
- *Appl. Math. Mech. (JCR)*
- *Adv. Difference Equ. (JCR)*
- *Aequationes Math. (JCR)*
- *J. Math. Inequal. (JCR)*
- *Numer. Funct. Anal. Optim.(JCR)*
- *Carpathian J. Math. (JCR)*
- *Cent. Eur. J. Math. (JCR)*
- *Adv. Math. Phys. (JCR)*
- *J. King Saud Univ. (JCR)*
- *Appl. Math. Comput. (JCR)*
- *Collect. Math. (JCR)*
- *Rend. Circ. Mat. Palermo*
- *J. Algebra Appl.*
- *Surv. Math. Appl.*
- *Acta Math. Sci.*
- *Extracta Math.*
- *Int. J. Differ. Equ.*
- *Int. J. Math. Math. Sci.*
- *J. Funct. Spaces Appl.*
- *J. Math. Study*
- *Commun. Math. Anal.*
- *ISRN Math. Anal.*
- *Math. Bohem.*
- *Publ. Inst. Math. (Beograd)*
- *Adv. Fuzzy Syst.*
- *Australian J. Math. Anal. Appl.*
- *Kyungpook Math. J.*
- *Afr. Mat.*
- *Demonstratio Math.*
- *Ann. Univ. Paedagog. Crac.*
- *Mat. Vesnik*
- *Novi Sad J. Math.*
- *Konuralp J. Math.*
- *J. Korea Soc. Math. Educ.*
- *Tamkang J. Math*
- *J. Numer. Anal. Ind. Appl. Math.*
- *Thai J. Math.*
- *Asian-European J. Math.*
- *Andian J. Math.*
- *Tbilisi Math. J.*
- *Sahand Commun. Math. Anal.*
- *Tamsui Oxf. J. Math. Sci.*
- *Konuralp J. Math.*
- *Gen. Math. Note*

- *Jordan J. Math. Stat.*
- *Sci. China Math.*
- *Open Oper. Res. J.*
- *Adv. Pure Math.*
- *Studies in Math. Sci.*
- *Int. J. Anal.*
- *Internat. J. Appl. Math. Stat.*
- *Facta Univ. Ser. Math. Inform.*
- *Albanian J. Math.*
- *J. Nonlinear Funct. Anal.*
- *J. Math. Tokushima Univ.*
- *Proc. Math. Phys. Soc. Egypt*
- *Math. Sci. Appl. E-Notes*
- *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat.*
- *Int. J. Open Prob. Com. Sci. Math.*
- *J. Adv. Res. Pure Math.*
- *Adv. Pure Appl. Math.*
- *Punjab Univ. J. Math.*
- *Nonlinear Funct. Anal. Appl.*
- *Iran. J. Math. Sci. Inform.*
- *J. Appl. Math.*
- *J. Ineq. Pure Appl. Math.*

### **(XVI) Curriculum development experience**

1. A member of a national committee on developing undergraduate courses in pure mathematics, 2003.
2. A member of committee on developing Curriculum in undergraduate mathematics in Ferdowsi University of Mashhad.
3. The director of committee on developing Curriculum Ferdowsi University of Mashhad.

### **(XVII) Research Interests (MSC 2000)**

- 15Axx: Basic linear algebra
- 15Bxx: Special matrices
- 39Bxx: Functional equations and inequalities
- 46Bxx: Normed linear spaces and Banach spaces; Banach lattices 46C05, Hilbert and pre-Hilbert spaces;
- 46Cxx: Inner product spaces and their generalizations, Hilbert spaces
- 46Hxx: Topological algebras, normed rings and algebras, Banach algebras 46L05, General Theory of C\*-algebras;
- 46Jxx: Commutative Banach algebras and commutative topological algebras
- 46Kxx: Topological (rings and) algebras with an involution
- 46Lxx: Selfadjoint operator algebras 47A05, General (adjoints, conjugates, products, inverses, domains, ranges, etc.);
- 46Txx: Nonlinear functional analysis
- 47Axx: General theory of linear operators
- 47Bxx: Special classes of linear operators
- 47Jxx: Equations and inequalities involving nonlinear operators
- 47Lxx: Linear spaces and algebras of operators
- 60Gxx: Stochastic processes
- 60Hxx: Stochastic analysis

### **(XVIII) Miscellaneous**

I have **Erdős number 3** (P. Erdős – H. L. Montgomery – P. Enflo - M.S. Moslehian) and **Einstein Number 4** (A. Einstein - E.G. Straus – L. Carlitz – H.M. Srivastava – M.S. Moslehian).