

Mohammad Fozouni

Current position:

Assistant Professor in Mathematics

(Full-time & Permanent)

Department of Mathematics

Faculty of Basic Sciences and Engineering

Gonbad Kavous University

Shahid Fallahi Ave., Gonbad Kavous, Golestan,
Iran, Islamic Republic.

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Academic page: <http://profs.gonbad.ac.ir/fozouni/en>

Personal

Born on Saturday, March 24 1984.

Place of birth: Gonbad Kavous, Golestan, Iran.

Citizen and Current resident of the Islamic Republic of Iran.

Marital status: Married.

Spouse's name: Elham Azizafshari, M. Sc. of Applied Mathematics, Operation Research.

Education

1. Ph. D. Harmonic Analysis, Kharazmi University (2011-2014)
Thesis: Homological and Cohomological Properties of Banach Algebras Based on Characters

Supervisor: Dr. Javad Laali

Advisor: Dr. Morteza Essamili.

2. M. Sc. Mathematical Analysis, Kharazmi University, Tehran, Iran (2007-2009)

Thesis: Generalized Notions of Amenability

Supervisor: Prof. Alireza Medghalchi.

3. B. Sc. Pure Mathematics, Payamnour University, Gonbad Kavous Branch (2003-2007).

Research Interests

Key Words:

1. Data Science and Python.

MSC: 16Txx

2. General theory of Banach algebras, abstract harmonic analysis, amenability of groups and Banach algebras, homological properties of Banach modules, BSE-algebras, locally compact quantum groups.

MSC: 43A07, 43A10, 43A15, 43A20, 46H05, 46H25, 46M10, 22D15

Publications

Journal Articles (selected)

1. (ISC) Spaceability in Banach Spaces Related to Locally Compact Groups (in Persian), *Mathematical Researches (Sci. Kharazmi University)*, to appear.
2. (ISC) On Bounded Compact-Weak Approximate Identities, *Caspian Journal of Mathematical Sciences*, in press. [Link](#).
3. (ISI) A p -ideal in BCI-Algebras based on Multipolar Intuitionistic Fuzzy Sets, *Mathematics* 2020, 8(6), 993. [Link](#).
4. (ISI) BSE-property for some certain Segal and Banach algebras, *Mediterranean Journal of Mathematics*, Vol. 16, Iss. 2, April 2019. [Link](#).
5. (ISC) On bounded weak approximate identities and a new version of them, *Global Analysis and Discrete Mathematics*, Vol. 4, Iss. 1, pp. 7–13. [Link](#).
6. (Scopus) On a question related to bounded approximate identities of ideals in Banach algebras, *Rendiconti del Circolo Matematico di Palermo Series 2*, online published. [Link](#).
7. (ISC, ISI listed) On character space of the algebra of BSE-functions, *Sahand Communications in Mathematical Analysis*, Vol. 12, Iss. 1, 187–194. [Link](#).
8. (Scopus) n -Jordan multipliers. *Surveys in Mathematics and its Applications*, Vol. 13, (2018), 121–129. [Link](#).
9. (ISI) ϕ -injectivity and character injectivity of Banach modules, *U. P. B. Sci. Bull. Series A*, Vol. 78, Iss. 3, 2016, 43–52. [MR3577610](#). [Link](#).
10. (Scopus) n -multipliers and their relations with n -homomorphisms, *Vietnam J. Math.*, (2017) Vol. 45, Issue 03: 451–457. [MR3669151](#). [Link](#).
11. (ISI) Closed ideals with bounded Δ -weak approximate identities in some certain Banach algebras, *Miskolc Math. Notes*, Vol. 17 (2016), No. 1, 413–420. [MR3527893](#). [Link](#).
12. (ISI) Hereditary properties of character injectivity with application to semigroup algebras, *Ann. Funct. Anal.* 6 (2015), No. 2, 162–172. [MR3292523](#). [Link](#).
13. (ISI) On Δ -weak ϕ -amenability of Banach algebras, *U. P. B. Sci. Bull. Series A*. Vol. 77, Iss. 4, 2015, 165–176. [MR3452543](#). [Link](#).
14. (*Mathematical Reviews*) Generalized injectivity of Banach modules, *Sarajevo. J. Math.*. Vol. 11 (24), No. 2, (2015), 197–204. [MR3418894](#). [Link](#).
15. (*Mathematical Reviews*) On (σ, τ) -module extension Banach algebras, *J. Linear. Topological. Algebra*. Vol. 03, No. 04 (2014), 185–194. [Link](#). [Link of a Corrigendum](#).
16. (ISI listed) Some properties of functional Banach algebras, *Facta Univ. Ser. Math. Inform.* Vol. 28, No. 2 (2013), 189–196. [MR3118917](#). [Link](#).

Proceedings

1. A Characterization of Amenable Locally Compact Quantum Groups, *The First National Congress on Mathematics and Statistics Gonbad Kavous University*, 10 May 2018, 42–44.
2. On a certain Banach algebra related to the group algebra, *AIMC48, Hamedan University, Hamedan, Iran*, Aug. 22-25, 2017, 506–510.
3. On the Converse of a Theorem Due to B. Forrest, E. Kaniuth, A. T.-M. Lau and N. Spronk, *4th Iranian Seminar on Harmonic Analysis and applications (ISHA4)*, Kharazmi University, Tehran, Iran, 20-21 January 2016, 117–120.
4. On two types of approximate identities. *The Extended Abstracts of The AIMC46, Yazd University, Aug. 25–28 2015*, 534–537.
5. On a new notion of injectivity of Banach modules. *The Extended Abstracts of The AIMC46, Yazd University, Aug. 25–28 2015*, 501–504.
6. A variant of Leptin-Herz theorem, *The Extended Abstracts of The 45th Annual Iranian Mathematics Conference*, 26-29 August 2014, Semnan University, Iran. 218–220.
7. Δ -weak ϕ -amenability of Banach algebras, *The Extended Abstracts of The 44th Annual Iranian Mathematics Conference*, 27-30 August 2013, Ferdowsi University of Mashhad, Iran. 351–354.
8. C^* -graded metric and C^* -graded sets and a common fixed point theorem, *The Extended Abstracts of the 19th Mathematical Seminar On Analysis and its applications*, 19-20 February 2011, University of Mazandaran, Babolsar, Iran. 1–11.

Submitted Papers

1. BSE-property of the completion of Fourier algebra in its multiplier algebra (in Persian).
2. On a Banach algebra generated in the multiplier algebra by the left multiplications.

What am I doing?

1. I am doing some projects of Data analysis and income prediction for corporations.
2. I have launched a free Data Science Course for Persian language speakers in the world over. More than 500 students have registered in this course. We started the course from the current semester online. We put the videos of this course at

<https://www.aparat.com/elmedade>

This course has an instagram page at

<https://www.instagram.com/elmedade/>

Final Reports of Research Plans

1. Generalized Multipliers, GKU, November 2016.
2. BSE-Property of some Banach Algebras, GKU, April 2016.
3. Notes on approximate identities of some Banach algebras, GKU, February 2018.

Workshops and Seminars

1. The 6th Workshop on Operator Algebras and their Applications (Quantum Group Theory), The Institute for Research in Fundamental Sciences (IPM). Tehran, January 6 - 10, 2019
2. The 2nd Seminar on Harmonic Analysis and Applications, The Institute for Research in Fundamental Sciences (IPM). Tehran, Iran. January 5-7, 2014.
3. Workshop on harmonic analysis and Banach algebras, IPM, Tehran, Iran, 2013.
4. Workshop on operator structure of Fourier algebra, IPM, Tehran, Iran, 2012.
5. Workshop on mathematical history, Tarbiyat Moalem University. Tehran, Iran, 2006.

Talks

1. On a certain Banach algebra related to the group algebra, AIMC48, Hamedan University, Aug. 22-25 2017, Hamedan, Iran.
2. On the Converse of a Theorem Due to B. Forrest, E. Kaniuth, A. T.-M. Lau and N. Spronk, ISHA4, Kharazmi University, 20-21 January 2016, Tehran, Iran.
3. On a new notion of injectivity of Banach modules. AIMC46, Yazd University, Aug. 25-28 2015, Yazd, Iran.
4. On two types of approximate identities. AIMC 46, Yazd University, Aug. 25-28 2015, Yazd, Iran.
5. A variant of Leptin-Herz theorem, AIMC45, Semnan University, August 26-29, 2014, Semnan, Iran.
6. Δ -weak ϕ -amenability and its relation with Helemskii's problem. Kharazmi University of Tehran. 25 May 2014.
7. The homology of Banach modules based on a character. Kharazmi University of Tehran. 11 May 2014.
8. The homology of Banach modules, Weakly seminar of mathematics. Kharazmi University of Tehran. 4 May 2014.
9. Δ -weak ϕ -amenability of Banach algebras, AIMC44, Ferdowsi University, August 27-30, 2013, Mashhad, Iran.
10. Some remarks on C^* -graded metric spaces, Weakly seminar of mathematics. Kharazmi University of Tehran. October 2010.

Book

1. Topics in Hilbert Spaces, Gonbad Kavous University Press, 2019.

Responsibilities and Positions

1. Chairman, 2nd National Congress of Mathematics and Statistics , Gonbad Kavous University, 20 February 2020.
2. Head of the department of mathematics, Gonbad Kavous University, Winter 2017- Winter 2019.
3. Expert of the recruitment office (for faculty members-Human resources) in Gonbad Kavous University, 2015-present.
4. Assistant professor of mathematics (full time), Gonbad Kavous university, 2015-present.
5. Lecturer of mathematics (part time), Payam Nour University, Gonbad Kavous Branch, 2015 (one semester).
6. Lecturer of mathematics (part time), Gonbad Kavous University, 2013-2014.
7. Lecturer of mathematics (part time), Islamic Azad University, North Tehran Branch, 2012-2013.

Taught Courses

1. (Middle School Course) Mathematics 3 (Mir Habibi Excellent Middle School, 2013– 2014).
2. (High School Course) Foundation of Computer (Mohammad Prophet Excellent High School, 2013– 2014).
3. (BSc Course) Mathematical analysis 3 as TA (Kharazmi University, 2007–2008).
4. (BSc Course) Calculus 1,2,3 (Islamic azad university, North Tehran branch, 2011–2012).
5. (BSc Course) Applied mathematics 1,2 (Gonbad Kavous University, 2012–2013).
6. (BSc Course) General topology (Gonbad Kavous University).
7. (BSc Course) Foundation of Geometry (Gonbad Kavous University).
8. (BSc Course) Dynamical Systems (Gonbad Kavous University).
9. (BSc Course) Foundation of Mathematical Analysis (Gonbad Kavous University).
10. (BSc Course) Mathematics Education (Gonbad Kavous University).
11. (BSc Course) Complex Functions (Gonbad Kavous University).
12. (BSc Course) Engineering Mathematics (Gonbad Kavous University).
13. (BSc Course) Foundation of Mathematics (Gonbad Kavous University).
14. (MSc Course) Real Analysis (Gonbad Kavous University).
15. (MSc Course) Algebraic Topology (Gonbad Kavous and Payamnour University).

Languages

1. **Persian:** Maternal.
2. **Azerbaijani:** Paternal.
3. **English:** Fluent (I took a TOEFL test in 13 November 2019 and here is my results: Reading 17; listening 17; Speaking 18; Writing 20).
4. **Español:** Intermediate (B2).

M. Sc. Student

1. Advisor of R. Daneshmand Khosravy, *On the Relative Commutativity Degree of a Subgroup of a Finite Group*. December 2016. Gonbad Kavous University.
2. Advisor of B. Makhtoom Nezhad, *On the Auslander-Reiten Conjecture for Cohen-Macaulay Rings and Path Algebras*. January 2017, Gonbad Kavous University.
3. Advisor of H. Shahraki, *G_C -projective modules over commutative ring*. November 2017. Gonbad Kavous University.
4. Advisor of F. Eghbal, *On groups in which every subgroup is subnormal of defect at most three*. February 2018. Gonbad Kavous University.
5. Advisor of B. Davudi, *Relative Gornestein dimensions*. November 2018. Gonbad Kavous University.
6. Advisor of F. Ganji Vatan, *Left 3-enge elements in groups of exponent 5*. August 2019. Gonbad Kavous University.

Certifications

1. Using proper scientific language (Elsevier Publishing Campus (EPC)).
2. Structuring your article (EPC).
3. Preparing your manuscript (EPC).
4. Security in computers and internet (Basic).
5. Power searching with Google.
6. How to write a CV?
7. Foundation of financial markets.
8. JavaScript programming.
9. Creative thinking.

Computer Skills

1. Programming Language: Python (for Data Science).
2. Typesetting: \LaTeX , Xepersian, Microsoft office.
3. Website Design: WordPress, JavaScript, Html.
4. Internet (Advance).

Avocations

1. Sport: Futsall, Basketball, Paragelayder, body building.
2. Cinema.
3. Philosophy.
4. History.
5. Psychology.

You can see a complete list of books that I have read and maybe choose from this list. Please click [here](#).

Services for International Communities

1. Referee for *Int. J. Nonlinear Anal. Apl.*
2. Referee for *Complex and Nonlinear Systems*.
3. Referee for *Caspian Journal of Mathematical Sciences*.
4. Reviewer of Mathematical Review (*MathSciNet*)(Number 102308).

Reviewed items

1. MR3189300. Bhatt, S. J.; Dabhi, P. A.; Dedania, H. V. On the $*$ -semisimplicity of the ℓ^1 -algebra on an abelian $*$ -semigroup. *Bull. Aust. Math. Soc.* 88 (2013), no. 3, 492–498.
2. MR3292065 Abtahi, F.; Khodsiani, B.; Rejali, A. Arens regularity of inverse semigroup algebras. *Bull. Iranian Math. Soc.* 40 (2014), no. 6, 1527–1538. 43A20 (46H05)
3. MR3337220. Nemati, Mehdi, Some homological properties of Banach algebras associated with locally compact groups. *Colloq. Math.* 139 (2015), no. 2, 259–271.
4. MR3414774. Anousheh, F; Ebrahimi Bagha, D; Bodaghi, A, Weak amenability for the second dual of Banach modules. (English summary) *Open Math.* 13 (2015), 633–670.
5. MR3422882. Arslan, Berna; Inceboz, Hulya, A generalization of the n -weak module amenability of Banach algebras. *Semigroup Forum* 91 (2015), no. 3, 625–640.
6. MR3557138. Sahami, A.; Pourabbas, A., Approximate biprojectivity and ϕ -biflatness of certain Banach algebras. *Colloq. Math.* 145 (2016), no. 2, 273–284.

7. MR3546993. Soroushmehr, M. Pointwise version of contractibility over group algebras and its applications. *Semigroup Forum* 93 (2016), no. 2, 211–224.
8. MR3577866. Crann, Jason. On hereditary properties of quantum group amenability. *Proc. Amer. Math. Soc.* 145 (2017), no. 2, 627–635.
9. MR3630163. Nasr-Isfahani, Rasoul; Nemati, Mehdi; Soltani Renani, Sima. Homological properties of Banach modules over abstract Segal algebras. *Math. Slovaca* 67 (2017), no. 1, 191–198.
10. MR3679720. Alaghmandan, Mahmood; Crann, Jason. Character density in central subalgebras of compact quantum groups. *Canad. Math. Bull.* 60 (2017), no. 3, 449–461.
11. MR3644011. Grigorchuk, Rostislav; de la Harpe, Pierre. Amenability and ergodic properties of topological groups: from Bogolyubov onwards. *Groups, graphs and random walks*, 215–249, London Math. Soc. Lecture Note Ser., 436, Cambridge Univ. Press, Cambridge, 2017.
12. MR3814237. Sahami, Amir; Pourabbas, Abdolrasoul. On approximate left ϕ -biprojective Banach algebras. *Glas. Mat. Ser. III* 53(73) (2018), no. 1, 187–203.
13. MR3896791. Inceboz, Hulya; Arslan, Berna; Bodaghi, Abasalt. Module symmetrically amenable Banach algebras. *Acta Math. Acad. Paedagog. Nyhsazi. (N.S.)* 33 (2017), no. 2, 233–245.
14. MR3819399. Khoddami, A. R. Biatness, biprojectivity, φ -amenability and φ -contractibility of a certain class of Banach algebras. *Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys.* 80 (2018), no. 2, 169–178.
15. MR3949183. Mortini, Raymond. A simpler proof of Cohen’s factorization theorem. *Amer. Math. Monthly* 126 (2019), no. 5, 459–463.
16. MR3987079. Abtahi, Fatemeh; Kamali, Zeinab; Toutounchi, Maryam. The Bochner-Schoenberg-Eberlein property for vector-valued Lipschitz algebras. *J. Math. Anal. Appl.* 479 (2019), no. 1, 1172–1181.
17. MR4022289. Gholami, R.; Rahimi, H. On character amenability of semigroup algebras. *Boll. Unione Mat. Ital.* 12 (2019), no. 4, 517–524.
18. MR4029169. Samei, Ebrahim; Shepelska, Varvara. Norm-controlled inversion in weighted convolution algebras. *J. Fourier Anal. Appl.* 25 (2019), no. 6, 3018–3044.
19. MR4052203. Neufang, Matthias. On the size of orbits in the duals of C^* -algebras and convolution algebras. *Proc. Amer. Math. Soc.* 148 (2020), no. 2, 667–671.

Genealogy or Ancestors

1. Mohammad Fozouni (KHU; Kharazmi University of Tehran).
2. Javad Laali (TMU 1994) (My Ph. D supervisor).
3. Alireza Medghalchi (University of Sheffield 1982) (My M. Sc supervisor).
4. John Sydney Pym (University of Cambridge).
5. John Hunter Williamson (University of Cambridge 1953).
6. Frank Smithies (University of Cambridge 1937).
7. Godfrey Harold Hardy (M.A. University of Cambridge).

8. Edmund Taylor Whittaker (University of Cambridge 1895).
9. Andrew Russell Forsyth (University of Cambridge 1881).
10. Arthur Cayley (Ph.D. / Ph.D. / Dr Sc. University of Oxford / University College Dublin / Universiteit Leiden 1864/1865/1875).
11. William Hopkins (M.A. University of Cambridge 1830).
12. Adam Sedgwick (M.A. University of Cambridge 1811).
13. Thomas Jones (M.A. University of Cambridge 1782).
14. Thomas Postlethwaite (M.A. University of Cambridge 1756).
15. Stephen Whisson (M.A. University of Cambridge 1742).
16. Walter Taylor (M.A. University of Cambridge 1723).
17. Robert Smith (M.A. University of Cambridge 1715).
18. Roger Cotes (M.A. University of Cambridge 1706).
19. Isaac Newton (M.A. University of Cambridge 1668).
20. Isaac Barrow (M.A. University of Cambridge 1652).
21. Vincenzo Viviani (Università di Pisa 1642).
22. Galileo Galilei (Università di Pisa 1585).
23. Ostilio Ricci (Universita' di Brescia).
24. Nicolò Fontana Tartaglia (Biography: Born: 1500 in Brescia, Republic of Venice (now Italy) Died: 13 Dec 1557 in Venice, Republic of Venice (now Italy).

The genealogy information obtained from the *Mathematics Genealogy Project* by Department of Mathematics, North Dakota State university, in association with the American Mathematical Society at the following address

<http://genealogy.math.ndsu.nodak.edu/>

Erdős Number

My Erdős Number is 4 by the following chain;

1. Mohammad Fozouni
2. Javad Laali
3. John. S. Pym
4. Neil. B. Hindman
5. Paul Erdős

Reference: MathSciNet

What is the Erdős Number? Click Here.

Last updated: 4 de noviembre de 2020

<http://m-fozouni.ir>