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Date of Birth: Dec 5, 1983

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Yaser Toloei

Curriculum Vitae

Jobs

- 2022–now **Associate Professor**, Razi University, Kermanshah, Kermanshah, Iran.
2014–2022 **Assistant Professor**, Razi University, Kermanshah, Kermanshah, Iran.
2009–2013 **Teaching Assistant**, Isfahan University of Technology, Isfahan, Iran.

Education

- 2022–2024 **B.Sc.**, Payame Noor University, Kermanshah, Kermanshah, Iran.
Psychology
2013–2014 **Sabbatical-Postdoc**, Ohio University, Ohio, USA.
Under supervision of Professor S. R. Lopez-Permouth
2009–2013 **Ph.D.**, Isfahan University of Technology, Isfahan, Iran.
Algebra, non-commutative ring and module theory
2006–2008 **M.Sc.**, Isfahan University of Technology, Isfahan, Iran.
Algebra, commutative ring and module theory
2003–2006 **B.Sc.**, Payame Noor University, Kermanshah, Kermanshah, Iran.
Pure Mathematics

M.Sc. and Ph.D. Thesis

Ph.D. Thesis: Reversible modules with application in ring theory, Supervised by Professor M. R. Vedadi

M.Sc. Thesis: Invertible and Dense Submodules of Multiplication Modules, Supervised by Professor A. Haghani

Research Interests

Module and Ring theory: (Pure) Projective and Injective Modules, Extending Modules, Multiplication Modules, Retractable Rings and Modules. Homological Algebra. Hopf Algebra.

Algebraic Geometry.

Coding Theory, Cryptography.

Teaching Experiences

- 2013–2024 Teaching various courses at Razi University, including Calculus I, II, III, Coding Theory, Mathematical English, Abstract Algebra, Cryptography, Set Theory and Logic, Ring Theory, Number Theory, Mathematics Lab, and Algebra I, III.
- 2008–2012 Teaching assistant for Calculus I, Algebra I and II, Differential Equations, and Ring Theory at Isfahan University of Technology.
- 2011 Teaching Calculus I at Isfahan University of Technology.

Activities

- Conference organizer member, "Second Joint IIIMT-Algebra Forum Conference 2025" in Iran, India, Indonesia, Malaysia, and Turkey (2025).
- Deputy head of the Department of Mathematics from 2015 to 2018 and 2019 to 2025.
- Razi University team leader in internal mathematics Olympiad from 2015 to 2025.
- Razi University team leader in internal mathematics competition at Yazd University (2015), Shahrekord University (2017), Mazandaran University (2018) (where one of my students got a silver medal), Alzahra University (2022), and Institute for Advanced Studies in Basic Sciences (2023) Tabriz university (2024) (one of my student got bronze medal). I improved the rank of Razi University team from 33 to 9.
- Conference organizer member, "First Joint IIIMT-Algebra Forum Conference 2023" in Iran, India, Indonesia, Malaysia, and Turkey (2023).
- Organized monthly book-reading (non-mathematics) at Razi University starting from January 2023.
- Organized monthly math webinars at Razi University starting from September 2020.
- Referee of 51st Annual Iranian Mathematics Conference in Kashan, February 16-19, 2021.
- Workshop organizer, "Computer Science" (Invited speaker: Prof. F. Arbab, Leiden University) at Razi University, 2019.
- Summer school organizer, "Random Dynamical System" (Invited speaker: Prof. Hans Crauel, Goethe-University Frankfurt) at Razi University, 2019.
- Referee of Journal of Algebra and its Application (JAA), Communication in Algebra, Journal of Algebraic Systems (JAS), International Electronic Journal of Algebra (IEJA), São Paulo Journal of Mathematical Sciences (SPJM), and Bulletin of the Iranian Mathematical Society (BIM).
- Internal examiner for seventeen M.Sc. theses and external examiner for seven Ph.D. theses.
- Organizer of Olympiad exam (zone five, Iran) from 2017 to 2024.
- Visiting researcher at Université d'Artois, France (with Professor Andre Leroy) in 2018.

- Visiting researcher at Padova University, Italy (with Professor Alberto Facchini) in 2018.
- Head of planning and development education of Razi University from 2018 to 2019.
- Member of the scientific committee of the 2nd National Conference on Mathematics and its Applications in 2015.
- Workshop organizer member, "The First Workshop on Noncommutative Ring Theory" (Invited speaker: Professor R. Wisbauer from Dusseldorf University) at IPM-Isfahan 2014.
- IUT Team leader assistant in internal mathematics competition in Kashan in 2010.
- IUT Team leader assistant in international mathematics competition in Bulgaria in 2010.

Honors

- Rank one as a teacher professor by teaching valuation at the Department of Mathematics (in all courses, 2020-2021).
- Recognized as the favorite professor, as a result of a poll of the Department of Science students (1200 students, 2017-2018).
- First score in Ph.D. entrance exam (2009).
- First rank student in mathematics at Payame Noor University, Kermanshah.
- Graduated in B.Sc. within 6 semesters (Generally it's taken 8 semesters).

Memberships

- Member of the Iranian Mathematical Society.
- Recipient of the Elite National Foundation scholarship.

Language Skills

Kurdish (native), Persian (native), English (fluent), Arabic (can read and write).

Publications

- Moradi, R., Dehghani, N. and Tolooei Y. Purely (quasi-)continuous modules and its generalization. Submitted.
 - Neishabouri, P. & Tolooei, Y. On coretractable and CFR modules. Submitted.
 - Safaeeyan, S., Baziar, M., Momtahan E. and Tolooei, Y., Simple endomorphism ring and their related modules. Submitted.
 - Tolooei, Y., Baziar, M., Momtahan E. and Safaeeyan, S., On rings whose proper factors are semisimple. Accepted at Journal of Algebra and Its Application.
- 2025 Tolooei, Y. & Neishabouri, P. (2025) On modules in which every finitely generated submodule contained in a kernel of an endomorphism. Communications in Algebra 53 (1) 42-51.

- 2023 Abolghasemi, M., Javanshiri H. & Tolooei, Y., (2023). Amalgamated duplication of Banach algebras from homological point of view. *Journal of Algebra and Its Applications* 22 (05), 2350116.
- 2023 Neishabouri, P. & Tolooei, Y. and Bagheri S. (2023). On modules in which every finitely generated submodule is a kernel of an endomorphism. *Communications in Algebra* 51 (2), 841-858.
- 2022 Tolooei, Y., & Vedadi, M. R. (2022). Non-divisibility of abelian group, (Persian) *Journal of Mathematical Researches* 8(2), 266-280.
- 2022 Abolghasemi, M., Moosavianfard, Z. & Tolooei, Y., (2022). Invertibility of generalized g-frame multipliers in Hilbert spaces. *Linear and Multilinear Algebra*, 1-20.
- 2021 Beachy, J. A. & Tolooei, Y. (2021). Modules which satisfy Gabriel's condition H. *Communications in Algebra*, 49(8), 3283-3293.
- 2020 Arroyo Paniagua, M. J., Facchini, A., & Tolooei, Y. (2020). Factorizations of elements in local rings and semilocal rings of finite type. *Journal of Algebra and its Applications*, 19(12), 2050234.
- 2020 Tolooei, Y. (2020). Multiplication modules that are finitely generated. *Journal of Algebraic Systems*, 8(1), 1-5.
- 2018 López-Permouth, S. R., Mastromatteo, J., Tolooei, Y., & Ungor, B. (2018). Pure-injectivity from a different perspective. *Glasgow Mathematical Journal*, 60(1), 135-151.
- 2017 Arabi-Kakavand, M., Asgari, S., & Tolooei, Y. (2017). Noetherian rings with almost injective simple modules. *Communications in Algebra*, 45(8), 3619-3626.
- 2017 Arabi-Kakavand, M., Asgari, S., & Tolooei, Y. (2017). Injective property relative to nonsingular exact sequences. *Bull. Korean Math. Soc*, 54(2), 559-571.
- 2016 Arabi-Kakavand, M., Asgari, S., & Tolooei, Y. (2016). Rings over which every module is almost injective. *Communications in Algebra*, 44(7), 2908-2918.
- 2015 Haghany, A., Tolooei, Y., & Vedadi, M. R. (2015). Characterizations of commutative max rings and some applications. *Indian Journal Pure Appl. Math*, 46(3), 371-381.
- 2014 Tolooei, Y., & Vedadi, M. R. (2014). Reversibility of a module with respect to the bifunctors Hom and Rej . *Bulletin of the Iranian Mathematical Society*, 40(4), 931-940.
- 2013 Asgari, S., Haghany, A., & Tolooei, Y. (2013). T-semisimple modules and T-semisimple rings. *Communications in Algebra*, 41(5), 1882-1902.
- 2013 Tolooei, Y., & Vedadi, M. R. (2013). On rings whose modules have nonzero homomorphisms to nonzero submodules. *Publicacions Matemàtiques*, 57(1), 107-122.

Presentations, Conferences, and Workshops

- 2025 Conference presentation, On rings whose every nonzero left ideal is an intersection of finitely many maximal left ideals, Non-Commutative Rings and their Applications, IX, NCRA, IX, 30 June-03 July 2025

- 2023 2 Conference presentations, 1. On Co-retractable and CFR modules, 2. On Modules in which every its finitely generated submodule belong to the kernel of a nonzero endomorphism, "4th International Conference on Computational Algebra, Computational Number Theory and Applications, CACNA2023", University of Kashan, Iran, 4-6 July 2023. (Also I was chairman in this conference too).
- 2023 Conference presentation, Co-epi-retractable Ring and Module, "54th Annual Iranian Mathematics Conference", University of Zanjan, 23-25 August 2023. (Also I was chairman in this conference too).
- 2023 Talk at "AMU Algebra with Applications Seminar", Aligarh Muslim University, Aligarh, India, 2023.
- 2022 Conference presentation, On modules in which every finitely generated submodule is a kernel of an endomorphism, Denison Mathematics Conference, Ohio 2022.
- 2019 Conference presentation, Multiplication modules, Yazd University, 2019.
- 2019 Conference presentation, Weak max rings, Yazd University, 2019.
- 2019 Conference presentation, CEFR modules, University of Kurdistan, 2019.
- 2018 Conference presentation, Modules satisfying Gabriel's condition H, Denison Mathematics Conference, Ohio 2018.
- 2016 Participate in Iran mathematics conference, Bu-Ali Sina University, 2016.
- 2015 Participate in Berlin mathematics conference, Berlin University, 2015.
- 2013 Conference presentation, Max Rings, Iowa University, 2013.
- 2013 Seminar presentation, Retractable module and ring, Ohio University, 2013.
- 2013 Seminar presentation, Reversible modules, Ohio State University, 2013.
- 2011 Participate in workshop basic total algebra, SBU, 2011.
- 2008 Participate in "5th" commutative algebra seminar, IUT, 2008.

References

- Professor J. A. Beachy, Department of Mathematics, Northern Illinois University, Illinois, USA. E-mail address: jbeachy@niu.edu
- Professor S. R. Lopez-Permouth, Department of Mathematics, Ohio University, Athens 45701, Ohio, USA. E-mail address: lopez@ohio.edu
- Professor A. Leroy, Department of Mathematics, Université d'Artois, Lens, France. E-mail address: andre.leroy@univ-artois.fr
- Professor A. Facchini, Dipartimento di Matematica, Università di Padova, 35121, Padova, Italy. E-mail address: facchini@math.unipd.it
- Professor A. Haghani, Department of Mathematics, Isfahan University of Technology, Isfahan 84156, Iran. E-mail address: aghagh@cc.iut.ac.ir
- Professor O. A. S. Karamzadeh, Department of Mathematics, Shahid Chamran University, Ahvaz, Iran. E-mail address: karamzadeh@ipm.ir
- Professor M. R. Vedadi, Department of Mathematics, Isfahan University of Technology, Isfahan 84156, Iran. E-mail address: mrvedadi@cc.iut.ac.ir

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