1) PERSONAL Data

- NAME: Hossein
- SURNAME: Eshraghi
- D.O.B: Jan 07 1981
- Current Position: Assistant Professor, Department of Pure mathematics, University of Kashan
- Postal Address: Department of Pure Mathematics, Faculty of Mathematical Sciences, University of Kashan, P.O Box 87317-51167, Kashan, Iran
- Email: eshraghi@kashanu.ac.ir
- Phone: +98-31-55912321

2) EDUCATION:

1997-2001 High School Diploma in Mathematical Sciences

2001--2005 Shahr-e-Kord University, B. SC in Pure Mathematics

2005-2007 Teacher Training University (Now known as Kharazmi University), M.SC in Pure Mathematics (Algebra), Supervisor: Professor M.T. Dibaei

2007-2012 Isfahan University, Ph.D in Algebra (Representation theory of Algebras), Supervisor: Professor Sh. Salarian; advisor: Professor Javad Asadollahi

3) QUALIFICATIONS/ HONORS/ AWARDS/ ASSOCIATION MEMBERSHIP

- Diploma in Mathematical Sciences, 2001
- B. Sc in Pure Mathematics, 2005
- M.Sc in Pure Mathematics (Algebra), 2007
- Ph.D in Pure Mathematics (Representation theory of Algebras), 2012
- Top Student in B. Sc Class
- Top Student in M.Sc Class
- Ranked first in Ph.D entrance exam (University of Isfahan), 2007
- Ranked first in Ph.D entrance exam (University of Shahid Beheshti), 2007
- Chosen in the National Students Olympiad (held internationally in the last stage), 2004
- Chosen in the National Mathematics Competitions, 2004
- Student Researcher at Institute for research in fundamental sciences (IPM), Tehran

- Student Researcher at University of Bielefeld, Germany, 2010-2011
- Guest Researcher at Capital Normal University, Beijing, China, Jan-Feb. 2018

4) PROFESSIONAL EXPERIENCE:

- TA, University of Isfahan
- Instructor, University of Isfahan
- Assistant Professor at University of Kashan

5) RESEARCH INTERESTS

- Representation theory of Algebras
- Commutative Algebra
- Homological Algebra

6) PUBLICATIONS:

- 1- On the homotopy category of projective and injective representations of quivers (joint with J.Asadollahi, R.Hafezi, and Sh.Salarian), J. Algebra (346), no.1, 2011, 101-115.
- 2- Total acyclicity for complexes of representations of quivers (joint with R.Hafezi, and Sh. Salarian), <u>Comm. Algebra</u> 41 (2013), no. 12, 4425–4441.
- 3- Gorenstein projective modules over triangular matrix rings (joint with R.Hafezi, Sh .Salarian and Z.W. Li), <u>Algebra Collog.</u> 23 (2016), no. 1, 97–104.
- 4- Cotorsion theory in the category of quiver representations (joint with R. Hafezi, E.Hosseini and Sh. Salarian), J. Algebra Appl. 12 (2013), no. 6, 1350005, 16 pp.
- 5- *The Auslander-Reiten translation in morphism categories*, *J. Algebra Appl.* 13 (2014), no. 3, 1350119, 12 pp.
- 6- Existence of almost split sequences via regular sequences, Bulletin of Australian Mathematical Society, <u>88 (2013)</u>, no. 2, 218–231.
- 7- Representation dimension of generalized path algebras of cyclic quivers, Comm. Algebra 45 (2017), no. 6, 2296–2305.
- 8- Representation dimension via tilting theory, Journal of Algebra, <u>494</u> (2018), 77-91.

- 9- Auslander-Reiten Conjecture in a dual vein (joint with Ali Mahin-Fallah), Algebras and Representation Theory 24(2021), 1279-1294.
- 10- The homotopy category of cotorsion flat modules (joint with Ali Hajizamani), Applied Categorical Structures 29 (2021), 213-233.
- 11- Homotopy category of cotorsion flat representations of quivers, Math. Interdisc. Res. 5 (2020) 279 -294.
- 12-Some Homologial Conjectures for group rings (joint with Ali Hajizamani), preprint, 2022.
- 13- Determination of some almost split sequences in morphism categories (joint with Rasool Hafezi), Journal of Algebra, 633(1) (2023), 88-113.
- 14- Injective generation of the derived category and finitistic dimension conjecture, Arch. Der. Math. 123(2024) 593-604.
- 15- From morphism categories to functor categories (joint with Rasool Hafezi), preprint, 2023.
- 16-Silting modules and universal localizations for algebras with finite type factors, preprint, 2024.

۱۷ - حدس اوسلندر - ریتن برای حلقه های گرنشتاین از بعد کرول حداقل ۲، ریاضی و جامعه، دوره ۷، شماره ۱، ۱۴۰۱.

۱۸- مروری بر حدس اوسلندر-ریتن و برخی حدسهای مرتبط با آن، فرهنگ و اندیشه ریاضی، دوره ۴۲، شماره ۱، ۱۴۰۲.

7) LANGUAGE SKILLS

Language	SPEAKING	READING	WRITING
ENGLISH	Fluent	Fluent	Fluent

8) (Selected) Seminars and Conferences

- Advanced School and Conference on Homological and Geometrical Methods in Representation Theory, 18 January -5 February 2010, ICTP, Italy.
- CIMPA-UNESCO-IPM School On Representation Theory of Algebras. June, 15-25, 2008. Tehran, Iran.
- 3 rd, 4 th and 5 th Seminar on Commutative Algebra and related topics; 2006, 2007 (IPM) and 2008 (Isfahan University of Technology).
- 20 th Seminar on Algebra, Tarbiat Moallem University, April, 22-23, 2009. Tehran, Iran.
- Workshop on Representation Theory of Algebras, Oct 2012, IPM-Tehran, Iran.
- Mini conference on commutative algebra, 2016, IPM-Tehran, Iran.
- University of Isfahan and IPM- Isfahan second seminar on representations of algebras (ISRA II), December 1-2, 2017, Isfahan, Iran.
- University of Isfahan and IPM- Isfahan third seminar on representations of algebras (ISRA III), November 20-22, 2018, Isfahan, Iran.

- University of Isfahan and IPM- Isfahan 4th seminar on representations of algebras (ISRA IV), 2019, Isfahan, Iran.

- The 9th Isfahan seminar on representations of algebras (ISRA V), 2024, Isfahan, Iran.

9) Lectures and talks

- On the homotopy categories of representations of a quiver, 5th conference on commutative algebra and related topics, Isfahan University of Technology, 2008.

- A survey on representation dimension of artin algebras, conference paper, 47th Annual Iranian Mathematics conference, Kharazmi University, Karaj, Iran, 2016. - The representation dimension of Gorenstein artin algebras of finite Cohen-Macaulay type, IPM-Isfahan seminar on representation theory of Artin algebras, October 19-20, 2016.

- Certain non-projective modules in tilting theoretic arguments,48th Annual Iranian Mathematics conference, Bu Ali University, Hamedan, Iran,2017.

- On derived equivalences of Artin algebras, The 14th seminar on commutative algebra and related topics, IPM, Tehran, January 3-4, 2018.

- A note on simple functors, 49th Annual Iranian Mathematics Conference, Iran University of Science and Technology, Iran, 2018
- Auslander-Reiten conjecture for Gorenstein rings and algebras, ISRA III, November 2018, Isfahan, Iran.
- The homotopy category of cotorsion flat modules, CIMPA-UI-IPM Isfahan school and conference on representations of algebras, April 7-19, 2019, Isfahan, Iran.
- A property of path algebras of finite representation type, 50th Annual Iranian Mathematics Conference, University of Shiraz, Shiraz, Iran, 2019
- *Homological conjectures for group rings*, The 17th (Virtual) Seminar on Commutative Algebra and Related Topics, IPM, 2021.
- On injectivity of certain Gorenstein injective modules, The 51th Annual Iranian Mathematics Conference, University of Kashan, Kashan, Iran, 2021.

- Universal localizations and Auslander-Reiten conjecture, 4th international conference on computational algebra, number theory, and applications, university of Kashan, Kashan, Iran 2023.

- A note on injective generation of the derived category of group rings, 55th Annual Iranian Mathematics Conference, Ferdowsi University, Mash'had, Iran 2024.