

Curriculum Vitae

• Personal ID:

Name : Razieh Vahed
Date of Birth : Sept. 6, 1986
Sex : Female
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• Position:

Assistant Professor of University of Khansar

• Work Address:

Department of Mathematics,
University of Khansar,
Khansar, Iran.

• Education:

2004–2008

B. Sc. in Mathematics, Shahrekord University.

2008–2010

M. Sc. in Mathematics, Shahrekord University,
Projects' title : “On the heirarchy of cohomological dimensions of groups” ,
Supervisor: Javad Asadollahi.

2010–2014

Ph. D. in Mathematics, University of Isfahan,
Projects' title : “Almost split sequences in the category of complexes” ,
Supervisors: Shokrollah Salarian and Javad Asadollahi.
Advisor: Rasool Hafezi.

• Research Topics:

Some of the topics I have worked on concern Homological Algebra, Hyperhomological Algebra, Homological Methods in Representation Theory of Algebras, Representation of Quivers, Category Theory, Triangulated Categories and Commutative Algebra.

• Research Experiences:

1. October 2014–October 2015, Non-Residents Researcher at the Institute for studies in theoretical Physics and Mathematics (IPM).
2. October 2015–February 2017, Post-Doctoral Researcher at the Institute for studies in theoretical Physics and Mathematics (IPM).
3. March–April 2016, Visitor at the Institut des Hautes Études Scientifiques (IHES), Paris, France.

4. 4-17 July 2016, Visitor at Shizuoka University, Shizuoka, Japan.
5. October 2017-, Non-Residents Researcher at the Institute for studies in theoretical Physics and Mathematics (IPM).

● **Conferences and Talks:**

1. 23 April 2009, participated in the “20th Seminar on Algebra”, TMU, Iran.
2. 29 June-1 July 2010, participated in the IPM Workshop on “Cluster Algebras and Quiver Representations”, Tehran, Iran.
3. 1-2 December, 2010, participated in the “7th Seminar on Commutative Algebra and Related Topics”, IPM, Tehran, Iran.
4. 16-17 February, 2011, participated in the IPM short course on “Auslander-Reiten Theory”, Tehran, Iran.
Lecture: Helmut Lenzen
5. 30 November- 1 December, 2011, participated in the “8th Seminar on commutative algebra and Related Topics”, Tehran, Iran.
6. 8-11 August 2012, participated in the Workshop on “Representations of Algebras”, Bielefeld University, Germany.
7. 13 August 2012, Lecture at the Conference “International Conference on Representations of Algebras (ICRA 2012)”, Bielefeld University, Germany.
Title: Almost split sequences in the category of complexes of modules.
8. 15-18 October 2012, participated in the IPM Workshop on “Representations of Artin Algebras”, Tehran, Iran.
9. 7-9 May 2013, participated in the IPM-Isfahan Workshop on “Higher Dimensional Auslander-Reiten Theory”, Isfahan, Iran.
10. 18-19 December 2013, Lecture at the “10th Seminar on commutative algebra and Related Topics”, IPM, Iran.
Title: Relative derived categories (II).
11. 16-17 April 2014, participated in the IPM-Isfahan Short Course on “Stable Homological Algebra”, Isfahan, Iran.
Lecture: Alexander Martsinkovsky.
12. 18-19 May 2014, participated in the IPM-Isfahan Short course on “2-Categorical Covering Theory and Derived Equivalences”, Isfahan, Iran.
Lecture: Hideto Asashiba.
13. 17-18 September 2014, participated in the IPM-Isfahan Short course on “Short Courses on DG algebras and Morita type theorem by Rickard and Gluing derived equivalences together with bimodules”, Isfahan, Iran.
Lecture: Hideto Asashiba.

14. 11 November 2015, Invited Lecturer at
 “12th Seminar on Commutative Algebra and Related Topics”, IPM, Iran.
 Title: Covering Techniques in Representation Theory.
15. 8-9 July 2016, Invited Speaker at
 “Biannual Seminar on Algebra”, Shizuoka University, Japan.
 Title: On derived equivalences of functor categories.

• **Publications:**

1. With J. Asadollahi and R. Hafezi, *Gorenstein derived categories, their invariants and their equivalences*, J. Pure Appl. Algebra **218** (2014), 888-903.
2. With J. Asadollahi and R. Hafezi, *Bounded Derived Categories of Representations of Infinite Quivers and Grothendieck Duality*, Cand. J. Math. **67** (1) (2015), 28-54.
3. With Sh. Salarian, *Almost Split Sequences in the Category of Complexes of modules*, J. Algebra Appl. **3** (2015), 1550037 (15 pages).
4. With Sh. Salarian, *Specifying the Auslander-Reiten translation for complexes of modules*, Forum Math. **28** (2016), no. 2, 377-389.
5. With J. Asadollahi, P. Bahiraei and R. Hafezi, *On relative derived categories*, Comm. Algebra **44** (2016), no. 12, 5454-5477.
6. With J. Asadollahi and R. Hafezi, *On the recollements of functor categories*, Appl. Categ. Structures **24** (2016), no. 4, 331-371.
7. With J. Asadollahi, P. Bahiraei and R. Hafezi, *Sheaves over infinite posets*, J. Algebra Appl. **16** (2017), no. 2, 1750026, 25 pp.
8. With J. Asadollahi, N. Asadollahi, R. Hafezi *Auslander’s Formula: Variations and Applications*, to appear in Kyoto Journal of Mathematics.
9. With H. Asashiba and R. Hafezi, *Gorenstein versions of covering techniques for linear categories and their applications*, to appear in J. Algebra.
10. With J. Asadollahi and R. Hafezi, *Derived equivalences of functor categories*, to appear in J. Pure Appl. Algebra.
11. With J. Asadollahi, N. Asadollahi, R. Hafezi *Duality and Serre functor in homotopy categories*, to appear in Comm. Algebra.
12. With E. Mahdavi, Sh. Salarian, *Galois covering of pure-semisimple categories*, preprint.
13. On the existence of recollements of functor categories, preprint.