

# CURRICULUM VITAE

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## 1 PERSONAL DATA

- Surname: Bagheri
  - First Name: Amir
  - Gender: Male
  - Nationality: Iranian
  - Date of birth: November 16, 1980
  - Place of birth: Tabriz, Iran
  - Marital status: Married
  - Language Skills:
    - Turkish: Native Language
    - Persian: National Language
    - French: Intermediate (Speaking, Reading and Writing)
    - English: Advanced (Speaking, Reading and Writing)
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## **2 EDUCATION**

- B.Sc Program (1998-2002): Pure Mathematics, University of Tabriz.
  - M.Sc. Program (2003-2006),  
Thesis title: Linear Growth Theorem,  
Advisor: Prof. Siamak Yassemi, University of Tehran.
  - Ph.D. Program (2008- 2013), University of Tehran  
Advisor: Prof. Siamak Yassemi.  
Thesis title: Toric Ideals, Local Cohomology and Their Powers.
  - Ph.D. Program (2010-2013), Universite Pierre et Marie Curie (Paris 6),  
Advisors: Prof. Marc Chardin and Prof. Siamak Yassemi.  
Thesis title: Graded Ideals, Local Cohomology and Their Powers.
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## **3 Professional Experience / Employment History**

- University of Tabriz  
Assistant Professor, Mathematics, 2013- present.
  - Scientific Responsible of Library of Faculty, 2014 - present.
  - Advisor Professor of Scientific Associations in Faculty, 2014 - present.
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## **4 Visiting Positions**

- Visiting Faculty, Universite Pierre et Marie Curie (Paris 6), 15.10.2010-12.07.2011
- Visiting Faculty, Universite Pierre et Marie Curie (Paris 6), 14.02.2012-28.10.2012
- Visiting Faculty, Universite Pierre et Marie Curie (Paris 6), 13.11.2012-11.07.2013

- Visiting Faculty, Universite Pierre et Marie Curie (Paris 6), 19.08.2013-28.09.2013
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## **5 HONORS AND AWARDS**

- France Government Scholarship (Co-tutelle), 2010- 2013.
  - Celebrated student in the B.Sc in University of Tabriz between 1999-2002.
  - Team member: National Mathematics Competitions for University students, 2001-2002.
  - Ranked 30-th in the Nationwide University Entrance Examination for M.Sc Program held in Iran, February 2002 with more than 10,000 applicants.
  - Ranked 2-th in the Ph.D. Program Entrance Examination held in University of Tehran, March 2008 with more than 50 applicants.
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## **6 RESEARCH INTERESTS**

- Homological Algebra
  - Combinatorial Commutative Algebra
  - Algebraic Geometry
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## **7 PUBLICATIONS**

- Amir Bagheri, Maryam Salimi, Elham Tavassoli and Siamak Yassemi, *A Construction Of Quasi-Gorenstein Rings*. Journal of algebra and its applications, 11, 1250013 (2012) [9 pages].

- Amir Bagheri, *A non-Vanishing Theorem for Local Cohomology Modules*. Bulletin of the Malaysian Mathematical Sciences Society, Vol. 37 No.1 (2014).
  - Amir Bagheri, Marc Chardin and Huy Tai Ha. *Eventual shape of Betti tables of powers of ideals*. Mathematical Research Letters, Vol. 20 No. 6 (2013).  
DOI: <http://dx.doi.org/10.4310/MRL.2013.v20.n6.a3>
  - *Graded Betti Numbers of Powers Of Ideals*, Joint with Kamran Lamei, Submitted.
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## 8 TEACHING ACTIVITY

- Teaching Theory of rings and modules and advanced algebra (2015-2016) at Marand Faculty Of Engineering.
  - Teaching Algebra, Combinatorics, Number Theory and Engineering Mathematics (2013-2014) at Marand Faculty Of Engineering.
  - Teaching Algebra 2 and Differential Equations (2010-2011) at Payam-e-Nour University, Karaj Branch.
  - Teaching Calculus (2010-2011) at University of Tehran.
  - Teaching Differential Equations (2009-2010) at University of Tafresh.
  - Teaching Calculus and Differential Equations (2008-2009) at Tehran University of Medical Sciences.
  - Teaching Calculus and Differential Equations (2008-2009) at University of Tehran.
  - Teaching Linear Algebra, Abstract Algebra, Differential Equations and Discrete Mathematics (2006-2007) at Azad University.
  - Teaching as TA (teacher assistant) in Linear Algebra during spring semester (2005-2006) at University of Tehran.
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## 9 ADVANCED COURSES PASSED

- Advanced Algebra, Text: Algebra, By Thomas W. Hungerford
  - Algebraic Geometry 1, Text: Basic Algebraic Geometry 1, By I. R. Shafarevich
  - Commutative Algebra 1, Text: Steps in Commutative Algebra, By R. Y. Sharp
  - Commutative Algebra 2, Text: Cohen-Macaulay Rings, By Winfried Bruns and Jürgen Herzog
  - Homological Algebra 1, Text: Homological Algebra, By H. B. Foxby
  - Algebraic Geometry 2, Text: Basic Algebraic Geometry 1, By I. R. Shafarevich
  - Combinatorial Commutative Algebra, Text: Ideals, Varieties, and Algorithms, By David Cox, John B. Little, Donal O'shea
  - Homological Algebra 2, Text: Local Cohomology : an algebraic introduction with geometric applications, By Markus Brodmann and R. Y. Sharp
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## 10 LECTURES AND CONFERENCE TALKS

- *Mathematics in Economy*, 2016, Lecture in Research Week, Marand Faculty of Engineering.
- *How to Research, Write and Publish*, 2016, Workshop on Methods of Writing Articles, Marand Faculty of Engineering.
- *Methods of Mathematical Writing, Introduction to LaTeX and XePersian*, 2016, Workshop on Mathematical Writing, Introduction to LaTeX and XePersian, Marand Faculty of Engineering.
- *Research In Science*, 2014, Lecture in Research Week, Marand Faculty of Engineering.

- *Graded Betti Numbers of Powers of Ideals*, 2014, School on Commutative Algebra and Algebraic Geometry, IPM, Tehran, Iran.
  - *The Eventual Shape of Multigraded Betti Numbers*, Third Seminar in Combinatorial Commutative Algebra, February 5 and 6, 2014, IPM, Tehran, Iran. (Invited Speaker)
  - *Two lectures on Castelnuovo-Mumford Regularity*, 2010, Universite Pierre et Marie Curie(Paris 6).
  - *A lecture on Grobner bases and Its Applications (Sudoku, ...)*, 2009, University of Tehran.
  - *Three lectures in Finite Free Resolutions*, 2009, University of Tehran.
  - Two lectures in Integral Closure, 2004, University of Tehran.
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## 11 Seminars/ Workshops Organised

- Workshop On Honor of "Research Week", November, 2016, Marand Faculty Of Engineering.
  - Workshop on Methods of Article Writing, February, 27, 2016, Marand Faculty of Engineering.
  - Workshop On Mathematical Writing, Introduction to LaTeX and XePersian, February, 29 and March, 1-2, 2016, Marand Faculty of Engineering.
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## 12 SCHOOLS AND SEMINARS ATTENDED

- Combinatorial and Experimental Methods in Commutative Algebra and related Fields, October, 7-10, 2015, Osnabreuck, Germany.
- School on Commutative Algebra and Algebraic Geometry, September 7-10, 2014, IPM, Tehran, Iran.

- Third Seminar in Combinatorial Commutative Algebra, February 5 and 6, 2014, IPM, Tehran, Iran.
  - Commutative Algebra and Applications to Combinatorics and Algebraic Geometry, Istanbul, Turkey 12-25 September 2010.
  - Fifth Seminar of Commutative Algebra and Related Topics, Tehran, Iran, 10 Dec-11 Dec, 2008.
  - Third Seminar of Commutative Algebra and Related Topics, Tehran, Iran, 10 Jan-11 Jan, 2007 IPM, Tehran, IRAN.
  - Second Seminar of Commutative Algebra and Related Topics, Tehran, Iran, 16 Nov-17 Nov, 2005 IPM, Tehran, IRAN.
  - School on Groebner Bases and Applications, 9 July-21 July, 2005 IASBS, Zanjan, IRAN.
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## 13 REFERENCES

- Prof. Siamak Yassemi,  
Department of Mathematics, University of Tehran, P. O. Box 13145-448,  
Tehran, Iran.  
Email: Yassemi@ipm.ir
- Prof. Marc Chardin,  
Department of Mathematics, Universite Pierre et marie Curie(Paris 6), 4  
place Jussieu, 75252, Paris, France.  
Chardin@math.jussieu.fr
- Prof. Rahim Zaare-Nahandi,  
Department of Mathematics, University of Tehran, P. O. Box 13145-448,  
Tehran, Iran.  
Email: rahimzn@ut.ac.ir