

## *Curriculum Vitae*

*Abdolhossein Haghani*

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### **Address**

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### **Research Interests**

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1. Thermodynamic and Thermophysical properties of Ionic Liquids
2. Theoretical and computational chemistry, DFT calculation
3. Thermophysical properties of Oil & Gas products

### **Education**

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1. **B. Sc. (1998 – 2002):** Applied chemistry, Kharazmi University, Tehran, Iran.
2. **M. Sc. (2008–2010):** Physical Chemistry, Iran. **Thesis Topic:** “Investigation of intermolecular hydrogen bond in damaged base pair” – under the supervision of Dr. A. Ebrahimi.
3. **PhD. (2011 –2016):** Physical Chemistry, Bu- Ali Sina University, Hamedan, Iran.  
**Thesis Topic:** “ Thermodynamic properties of binary and ternary solutions consisting Ionic Liquids” , supervisor of Prof. H. Iloukhani
4. **Sabbatical ( Jan, 2015-Jul,2016):** State University of New York, College at Brockport, USA, supervisor: Prof. **M. Hoffmann.**

## Award Academic

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1. Master GPA: 3.70 out of 4 (**1<sup>st</sup> ranked**) and my thesis score is 3.96 out of 4.
2. Member of Talented Student office in Bu-Ali sina university (ID code:703039013)

## International Research

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1. **Invited Researcher ( Jul, 2016-Sep,2016)**: Chemistry & Chemical Engineering Department, Beifang University of Nationalities, Yinchuan, China (Ionic Liquid research Lab).
2. **Invited Researcher ( Jun, 2017-Jul,2017)**: Chemistry & Chemical Engineering Department, Beifang University of Nationalities, Yinchuan, China (Ionic Liquid research Lab).
3. **Invited Researcher ( Jul, 2018-Aug,2018)**: Chemistry & Chemical Engineering Department, Beifang University of Nationalities, Yinchuan, China (Ionic Liquid research Lab).

## Publications and Conferences

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1. A. Ebrahimi, M. Habibi, **A. Haghani**, 2011, Effect of protonation on individual hydrogen bonds in the 8oxoguanine-cytosine base pair:NMR, NBO, and AIM analyses, *Molecular Physics*.
2. A. Ebrahimi, **A. Haghani**, 2010, NMR study on protonated 8OG:C base pairs:DFT calculation, *Journal of the iranian chemical society*,2010, 9<sup>th</sup> biophysical chemistry conferences.
3. **A. Haghani**, D. R. Saeva, H. Iloukhani, and M. M. Hoffmann, 2015, Comparing Composition- and Temperature-Dependent Viscosities of Binary Systems Involving Ionic Liquids, *Journal of Chemical Engineering Data*.
4. **A. Haghani**, H. Iloukhani, and M. M. Hoffmann, 2016, Density and Viscosity Study of Interactions of Some Amino Acids in Aqueous Solutions of Sodium Benzoate, *Journal of Chemical Engineering Data*.
5. **A. Haghani**, H. Iloukhani, *under revision*, Thermophysical properties of binary mixtures of {1-butyl-3-methylimidazolium thiocyanate + 2-alkanols (C3 – C6)} at different temperatures: Excess molar volume, refractive index and isentropic compressibility,
6. A. Ebrahimi, **A. Haghani**, 2010, Comparison between Syn and Anti conformations in 8OG:C AIM. NBO and NMR study, 13<sup>th</sup> physical chemistry seminar,
7. **A. Haghani**, 2011, Protonation on the hydrogen bond strength in the syn and anti conformations, 1<sup>st</sup> Novin chemistry seminar.
8. American Chemical Society meeting (ACS), 40th Northeast Regional meetin (NERM 2015), Ithaca, NY. USA.
9. **A. Haghani**, Thermophysical properties of Amino Acids in organic solvents, 2015, 4<sup>th</sup> International congress on advances in the chemistry , chemical engineering and metallurgy, Tehran, Iran.

## **International Lecture**

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1. International meeting on “Material science and Engineering”, Beifang University of nationalities, Yinchuan, *China*, 2017.
2. Undergratuated conference, “Education of Chemistry software”, North Minzo University, Yinchuan, *China*, 2016.
3. Presentation on Undergratuated conference, “Computer-Based teaching and learning of chemistry”, North Minzo University, Yinchuan, *China*, 2017.
4. First Annual State university of New York Undergraduate research Conference, 2015, New York, *USA*.

## **Workshop**

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1. Internation workshop with title “Simulation and optimization of chemical processes”, at the 4<sup>th</sup> International congress on advances in the chemistry , chemical engineering and metallurgy.
2. Workshop with title “ Excellence in Learning and Teaching trainig”, 2015, State University of New York, New York, USA.
3. Third Conference and Workshop on Mathematical Chemistry (TCWMC 2010), Tehra, Iran.
4. “Safety in Laboratory” workshop, Bu-Ali Sina University, Hamadan, Iran.
- 5.” Tutoring and Working with STM “ workshop, Nano Club, Ministry ofScience, Iran.
6. “ Synthesis and analysis of Nano Particles” workshop and training, Bu-Ali Sina University, Hamadan, Iran.

## **Computer skills**

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1. General software’s and Computer Knowledge (ICDL).
2. Specialized software’s (Gaussian, Gamess, Chemoffice, Hyperchem, Endnote, MathLab).

## Experience

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- **Industry** (Dean of Central laboratory), 2003-2006, Jam Petrochemical Company (JPC), MEG unit, Asaluyeh, Ministry of Oil, Iran.
- **Industry** (Welding & piping inspection), 2002-2003, Jam Petrochemical Company (JPC), MEG unit, Asaluyeh, Ministry of Oil, Iran.
- **Industry** (GC, HPLC, Atomic Absorption), 2002, Central Laboratory, Arak Petrochemical Company (JPC), MEG unit, Arak, Ministry of Oil, Iran.
- **Teaching:** (Education of chemical Instruments, GC, HPLC), 2006-2014, Ministry of Oil, Iran.
- **Teaching:** (General Chemistry-physical chemistry), 2010, Azad University, Iran.
- **Teaching:** (General Chemistry-Biochemistry), 2010, Payam Nour University, Iran.
- **Teaching:** (Education of Nano Science), 2012, Professor Hesabi Research Student Center, Hamadan, Iran.  
**Teaching:** (Education of Nano Instrument) *Labscale Electrospinning Unit- Sputtering*, (Physical Vapor Deposition)-*STM* microscopy, 2012-2015, Professor Hesabi Research Student Center, Hamadan, Iran.
- **Teaching:** (General Chemistry, Adjunct faculty, *State University of New York*, College at Brockport, *USA*, 2015.
- **Tutoring:** Chemistry tutoring for the Mathematics & Physical Sciences Living Learning Community, State University of New York, College at Brockport, USA, 2015.
- **Teaching:** (Education of Chemistry). 2016 to now, Faculty member of Chemistry & Chemical Engineering Department, Lamerd Higher Education Center, Ministry of science, Iran.
- **Managment:** (Vice president in Education& Research center). 2016 to 2018, Faculty member of Chemistry & Chemical Engineering Department, Lamerd Higher Education Center, Ministry of science, Iran.