

CONTACT  
INFORMATION

*E-mail:* payam.eftekhargmail.com

DATE OF BIRTH September 7, 1988

CITIZENSHIP Iranian

EDUCATION **Sharif University of Technology**, Tehran, Iran **Sep 2006 to present**  
▷ BSc. in Chemistry (Chemistry courses' GPA: 18.85/20)  
Ranked 1<sup>st</sup> in class of 2010, last year GPA: 19.67/20

**Sharif University of Technology**, Tehran, Iran **Sep 2007 to present**  
▷ BSc. in Physics

**Young Scholars Club**, Tehran, Iran **Jul 2005 to Sep 2005**  
▷ Preparation Course for National Chemistry Olympiads

**Allame Tabatabaei High School**, Tehran, Iran **Sep 2002 to Jun 2006**  
▷ Diploma of Physics and Mathematics

RESEARCH  
INTERESTS

- ▷ Polymer synthesis
- ▷ Design and synthesis of catalysts for use in organic and polymer synthesis
- ▷ Designing functional macromolecules
- ▷ Polymer networks, hydrophilic gels with engineered properties

PUBLICATIONS *Journal Papers:*

1. A. Pourjavadi, **P. Eftekhar Jahromi**, F. Seidi, H. Salimi, *Synthesis and swelling behavior of acrylatedstarch-g-poly (acrylic acid) and acrylatedstarch-g-poly (acrylamide) hydrogels*, **Carbohydrate Polymers** , 79 (2010) 933–940
2. H. Salimi, A. Pourjavadi, F. Seidi, **P. Eftekhar Jahromi**, R. Soleyman, *New Smart Carrageenan-Based Super Absorbent Hydrogel Hybrid: Investigation of Swelling Rate and Environmental Responsiveness*, **Journal of applied polymer science**, 117 (2010) 3228–3238
3. Mehdi Jalali-Heravi , Ahmad Mani-Varnosfaderani, **Payam Eftekhar Jahromi**, Mohammad Mohsen Mahmoodi, Davood Taherinia, *A molecular library for classification and similarity analysis of anti-HIV compounds*, **Journal of Medicinal Chemistry** , (Submitted 2010)

*Conference Papers:*

1. **P. Eftekhar Jahromi**, F. Seidi, A. Pourjavadi, *Synthesis and Characterization of some novel hydrogels based on acrylstarch*, **Frontiers in polymer science International symposium celebrating the 50th anniversary of the Journal POLYMER**, June 7–9 2009, Mainz, Germany
2. F. Seidi, **P. Eftekhar Jahromi**, A. Pourjavadi, *Synthesis and characterization of star-copolymers by ATRP method using of modified glucose as a (multifunctional) initiator*, **Frontiers in polymer science**, June 7–9 2009, Mainz, Germany

3. H. Salimi, A. Pourjavad, F. Seidi, **P. Eftekhar Jahromi**, *Preparation and Swelling Behaviors of a Novel Carrageenan-Based Superabsorbent Hydrogel*, **9th International Seminar on Polymer Science and Technology**, October 17–21, 2009, Tehran, Iran
4. M. Jalali Heravi, A. Mani, D. Taherinia, M. M. Mahmoodi, **P. Eftekhar Jahromi**, *Development of molecular library for classification and similarity analysis of anti-HIV compounds*, **Poster presentation, ACS**, March 21–25, 2010 San Francisco, California
5. M. Jalali-Heravi, A. Mani-Varnosfaderani, M. M. Mahmoodi, D. Taherinia, **P. Eftekhar Jahromi**, *Application of counter propagation artificial neural networks and decision trees for classification of metabotropic glutamate inhibitors*, **17<sup>th</sup> Iranian Seminar of Analytical Chemistry**, Sept 12–14 (2010), Kashan, Iran

#### HONORS AND AWARDS

- Winner of ‘The Top Undergraduate student in Research and Technology’ award, 10<sup>th</sup> Festival of Research and Technology, Sharif University of Technology, Tehran, Iran
- Selected by the Department of Chemistry to participate in Chemistry Olympiad for senior students , 2010
- Ranked 1<sup>st</sup> based on GPA among senior students of Department of Chemistry, Sharif University of Technology, 2010
- Rewarded by Tehran Education Organization as “One the most successful college and high school chemistry teachers in 2007”
- Silver medal winner, National Chemistry Olympiad, 2005, Tehran, Iran
- First place in Chemical Laboratory Skills Contest, 2004, Tehran, Iran

#### TEACHING AND PROFESSIONAL EXPERIENCE

- Teaching highly talented students for preparatory in national olympiad (Sep 2005–present)
- Teaching Assistant, Organic Chemistry I, Sharif University of Technology, Tehran, Iran (Sep 2009 - Feb 2010)
- Part-time Researcher in the Department of Chemistry:
  - ▷ Researcher and Lecturer, Polymer Research Laboratory (Sep 2008 to present)
  - ▷ Researcher, Chemometrics and Chemoinformatics Research Group (Jan 2009 to present)

#### LECTURES AND TALKS

- Polymers’ H-NMR spectra and special peaks that characterize the structure of Polymers, Department of Chemistry, (Organic Spectra Analysis Course)
- Utilizing transition metals as catalyst in polymerization methods specially in *Ring Opening Metathesis Polymerization (ROMP)*, Department of Chemistry, (Organometallic Chemistry Course)
- Photo catalytic Degradation of Methylparaben by TiO<sub>2</sub>: Multivariable Experimental Design And Mechanism (Experimental Design Course)

## CURRENT PROJECTS

- P. Eftekhar Jahromi, F. Seidi, A. Pourjavadi, Synthesis of new initiators for *atom transfer radical polymerization* (**ATRP**), (From Dec 2008 to present)
- P. Eftekhar Jahromi, F. Seidi, A. Pourjavadi, Preparation of amphiphilic copolymers using ATRP method (From Sep 2009 to present)
- P. Eftekhar Jahromi, Use computational methods to predict products of specific polymerization reactions (From Aug. 2010 to present)

## SKILLS

### *Computer Skills:*

- *Scientific computing:* ChemOffice, Hyperchem, Gaussian, Spartan
- *Productivity software:* Microsoft Office

### *Language Skills:*

- Farsi (Native), English (Upper- intermediate)

## AFFILIATIONS

**Member** Polymer Research Laboratory  
Department of Chemistry, Sharif University of Technology

**Member** Chemometrics and Chemoinformatics Research Group  
Department of Chemistry, Sharif University of Technology

**Member** Young Scholars Club<sup>1</sup>, Tehran, Iran

## HOBBIES

- ▷ Tennis
- ▷ Fitness
- ▷ Swimming
- ▷ Persian Poetry

## REFERENCES

Available Upon Request

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<sup>1</sup>Young Scholars Club is the exclusive organizer of scientific olympiad in Iran