Reza Rahmati

Curriculum Vitae

Personal Information

Gender: Male Email: reza.rahmati2016@sharif.ir,

Date of Birth: 10/3/1993 reza_rahmati93@yahoo.com

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Education

• MSc in Materials Science and Engineering

Sep 2016-Present

- Sharif University of Technology, Tehran, Iran
- Field: Characterization and Selection of Engineering Materials
- BSc in Materials Science and Engineering

July 2016

Shiraz University, School of Engineering, Shiraz, Fars, Iran

Cumulative GPA: 4 (18.09 out of 20)

• Diploma in Mathematics and Physics

July 2010

Tohid High School, Shiraz, Fars, Iran

Cumulative GPA: 4 (18.51 out of 20)

Academic Awards and Honors

- Merit-based Admission for Graduate Studies in Materials Science and Engineering, Characterization and Selection of Engineering Materials: Sharif University of Technology, Tehran, Iran (2016)
 - Admission offer and a two-years fellowship due to being 1st rank of the class of 2016 of undergraduate program
- Merit-based Admission for Graduate Studies in Materials Science and Engineering, Characterization and Selection of Engineering Materials: Amirkabir University of Technology, Tehran, Iran (2016)
 - Admission offer and a two-years fellowship due to being 1st rank of the class of 2016 of undergraduate program
- Merit-based Admission for Graduate Studies in Materials Science and Engineering, Characterization and Selection of Engineering Materials: Tarbiat Modares, Tehran, Iran (2016)
 - Admission offer and a two-years fellowship due to being 1st rank of the class of 2016 of undergraduate program
- Elite Graduated Student Award (Issued by Shiraz University Alumni Association)
- The Highest Total GPA achieved among 79 BSc students in School of Engineering, Shiraz, Iran
- Ranked 1st among 37 BSc students of Materials Science and Engineering Department, School of Engineering, Shiraz, Iran
- Awarded full scholarship to study at Shiraz University for undergraduate program
- Ranked among top 1% of the participants of the National University Entrance Exam for B.Sc. (2012)
- Ranked 1st in National Robotic Competition in Field of Light and Line Tracing, Shiraz, Iran, 2009

Areas of Research Interest

- 3D Graphene Foam Based Electrodes/Capacitors for Bio sensing and Storage Applications
- Bio-MEMS/Bio-NEMS
- Bio-compatible Coatings
- Advanced Materials (Nano/Bio Materials)
- Nano-composites (Specially by FSP)
- Microstructure-Property Relationship

Curriculum Vitae Reza Rahmati

- Simulation of Processes by ABAQUS
- Programming with MATLAB

Projects and Research Experience

- Researcher at Research Center for Nanostructure and Advanced Materials (RCNAM), (Supervisor: Dr.Abdolreza Simchi)
 - Working on master thesis and related subjects
- Friction-stir processing of a Titanium-nanoHydroxyapatite nanocomposite: Microstructural developments, mechanical properties and corrosion behavior in simulated body fluid
 (Supervisor: Dr.F.Khodabakhshi)
 present
 - In progress...
- Researcher in Materials Group in Lab on a Disk Project in Collaboration with University of California,
 Irvine. (Supervisor: Dr. M.Jalisi/Dr. Marc.Madou)

 Summer 2016
 - > Designed a new pattern on the microfluidics disk for a biological test (glucose test)
 - Modeled and analyzed the patterned disk by Solidworks
 - Surface modification of PMMA for hydrophobicity improvement
- An Investigation on the Effect of Anodizing Parameters on Titanium Surface Morphology and Corrosion Resistance_(Supervisor: Dr.P.Najafisayar)

 Spring 2016
 - Investigated anodized Ti nano-structure morphology by SEM
 - Investigated anodized Ti corrosion resistance in SBF by Tafel and Impedance curves

Notable Scores of Interest

Course	My Score	Maximum Score
Materials Selection	20	20
Advanced Materials	19.47	19.97
Introduction to Nanotechnology	19.5	19.8
Polymers	19.3	19.3
Coatings and Surfaces Metallurgy	19.88	19.97
Powder Metallurgy	19	20
Simulation in Materials Engineering	20	20
Engineering Mathematic	19.2	19.2
Fundamentals of Computer and Programming	20	20
Fundamentals of Electrical Engineering I	18.7	20

Curriculum Vitae Reza Rahmati

Teaching Experience

Teaching Assistant, Materials Selection (Dr.S.Javadpour)

Spring 2016

- > Conducted office hours to help students understand and solve homework problems
- Prepared and graded homework

Teaching Assistant, Physical Properties of Materials I (Dr.S.Javadpour)

Fall 2015

- > Conducted office hours to help students understand and solve homework problems
- Prepared and graded homework
- Teaching Assistant, Engineering Mathematics (Dr.F.Khodabakhshi)

Fall 2015

- Conducted office hours to help students understand and solve homework problems
- Prepared and graded homework

Conferences/Seminars

2nd International Seminar on Bio-MEMS/Bio-NEMS

Sept. 2016

- As an English lecturer about Lab on a Disk (mutual project between Shiraz University and University of California, Irvine)
- 6th International Conference on Nanostructures (ICNS6)

7-10th March 2016

As a guest participant

Workshops

• Nanotechnology <u>Dec. 2016</u>

• TEM Application in Nanomaterials Analysis

Oct. 2016

• Fundamentals/Applications of Raman Spectroscopy and FT-IR in Nanomaterials Analysis Oct. 2016

Computer Skills

- Programming Language:
 - C, Matlab
- Engineering Software:
 - Abagus, Solidworks, AutoCAD, Deform, Key to Steel, CES
- General Software:
 - Microsoft Word, Microsoft Excel, Microsoft Power Point

Languages

Persian
 Native language

English
 Professional proficiency

Arabic Elementary proficiency

Society and Committee Membership

Member of Scientific Association of Materials Science and Engineering, Shiraz University, Iran
 (Scientific Group/Laboratory Group/literature Group)

2015-2016

• Member of Association of Genius Alumni of Shiraz University

May 2016-Present

Curriculum Vitae Reza Rahmati

Voluntary Works

Participating in organizing 9 Laboratories of Metallurgy Dept.
 Participating in repairing of the Thermal Gravimetric Analysis System
 Participating in digitalizing the Heat Treatment Laboratory Furnaces

Summer 2014
Summer 2014

Other Interests

• Sports: swimming, table tennis, chess

Charity work

• Iranian Literature and Music

Team Leadership and Management Skills/Business Startup

References

• Dr. Abdolreza (Arash) Simchi,

Full Professor, Iran's Chair in Nanomaterials, Dept. of Materials Science and Engineering, Institute for Nanoscience and Nanotechnology, Sharif University of Technology, Tehran, Iran

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Webpage: www.cnam.irDr. Marc Mehrzad Jalisi,

Full Professor, Dept. of Mechanical Engineering and Material Science, Shiraz University, Shiraz, Iran.

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Dr. Sirous Javadpour,

Full Professor, Materials Science and Engineering Dept., Shiraz University, Shiraz, Iran.

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Dr. Farzad Khodabakhshi,

Assistant Professor, Materials Science and Engineering Dept., Shiraz University, Shiraz, Iran.

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Dr. Pouria Najafisayar,

Assistant Professor, Materials Science and Engineering Dept., Shiraz University, Shiraz, Iran.

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Please do not hesitate to contact me for further information or proofs.