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Milad Khorrami

Materials and Biomedical Engineering

Education

PhD in Biomedical Engineering 09/2015-9/2018 (expected)
Department of Biomedical Engineering

University of Houston TX, USA
Cumulative GPA: 4 /4

Masters in Material Science and Engineering 09/2014-09/2015
Department of material science and engineering

Penn State University PA, USA
Cumulative GPA: 3.85 /4

B.Sc. in Material Science and Engineering 09/2010-06/2014
Department of material science and engineering

Sharif University of Technology Tehran, Iran
Cumulative GPA: 3.2 /4

- Ranked in the **top 1%** of the National University Entrance Examination

High school Diploma in Physics and Mathematics 09/2006-06/2010

Shahid Danesh High School Tehran, Iran
Cumulative GPA: 19 /20

Interest

- Biomaterials
- Neural Engineering
- Drug Delivery
- Conducting Polymer

Research Projects

- **PhD Thesis**

  Investigating the effect of gradient of different guidance for axonal growth and nerve regeneration, Dr.Abidian, 2015
- **Masters Thesis**

  Fabrication and Characterization of Conducting Polymer Microcups Produced via Electrospinning and Electrochemical Polymerization for Neural Microelectrodes
- **BS thesis**

  Antibacterial PP Polymers by Nano Silver Particle, Sharif University, Prof.Reza Bagheri, 2013
- **Bioelectronics, Bioinformatics, Artificial lamb**

  Research Assistant in Nanobioelectronics Research Group,
  Department of Materials Science and Engineering, Sharif University, Prof. Abdoreza Simchi, 2013
- **Additive films in PP/PE polymer**

  Research and development at Parsa Polymer Sharif, Prof. Reza Bagheri, 2013
- **Expansion Tank material properties**

  Course Project, Introduction to Polymer Engineering, Prof.Reza Bagheri, 2012
- **Fundamental of piezoresistivity**

  Course Project, electrical properties, Prof. Mohammad Nemati, 2013
- **Pascal coding-Computer game Design**

  Course Project, Principles of Computer Programming, Prof. Dorri, 2011

Skills

- UV-VIS spectrophotometry
- SEM, FESEM, HELIOS
- AFM
- FTIR
- Electrochemical polymerization
- Electrospinning and Electrospraying
- EVAP coating (Nanofabrication at cleanroom)
- Confocal Microscopy

Paper Publication

- Milad Khorrami, Martin Antensteiner, Fatemeh Fallahianbijan, Ali Borhan, Mohammad Reza Abidian, Conducting Polymer Microcontainers for Improved Electrical Performance of Implantable Microelectrodes and Sustained Drug Release (Under Review)

- Milad Khorrami, Mohhamad Reza Abidian, Comparative Study of electrical properties of Poly(3,4-ethylenedioxythiophene) and polypyrrole coated aligned nanofibers and films. (Under Review)

Conference Publication

- M. Khorrami, M. Antensteiner, F. Fallahianbijan, M. R. Abidian, Fabrication and Electrical Characterization of Conducting Polymer-Biodegradable Microsphere Composites for Electrode-Tissue Interface, 57th Electronic Materials Conference (EMC), Columbus, OH, June 2015. (Presentation)
- M. Antensteiner , M. Khorrami, F. Fallahianbijan, M. R. Abidian, Conducting Polymer-Encapsulated Microspheres for Improved Electrical Performance of Bioelectronics, Biomedical Engineering Society (BMES), Tampa, FL, October 2015. (Poster)
- M. Khorrami, M. Antensteiner, F. Fallahianbijan, M. R. Abidian, Conducting Polymer-Encapsulated Electrosprayed Biodegradable Microspheres for Improved Electrical Performance of Implantable Microelectrodes, Symposium CC: Organic Bioelectronics—From Biosensing Platforms to Implantable Nanodevices, Materials Research Society (MRS), Boston, MA, December 2015. (Poster)
- M. Khorrami, M. R. Abidian, Fabrication and Characterization of Dexamethasone-Loaded Biodegradable Nanofibers and Conducting Polymers Produced via Electrospinning and Electrochemical Polymerization for Neural Microelectrodes, Symposium M: Micro- and Nanoscale Processing of Materials for Biomedical Devices, Materials Research Society (MRS), Boston, MA, December 2015. (Poster)
- F. Fallahianbijan , M. Khorrami, M. Antensteiner, A. Borhan, M. R. Abidian, Fabrication and Electrical Characterization of Conducting Polymer-Coated Biodegradable Microspheres, Symposium XX: Architected Materials—Synthesis, Characterization, Modeling and Optimal Design, Materials Research Society (MRS), Boston, MA, December 2015. (Poster)
- M. Antensteiner , M. Khorrami, M. R. Abidian, Fabrication and Characterization of Organic Conducting Polymer Microcontainers for Drug Delivery Systems, Materials Research Society (MRS), Phoenix, AZ, April 2016. (Presentation)
- M. Khorrami, M. R. Abidian, Sustained Release of Dexamethasone from Biodegradable Microspheres and Conducting Polymer Microcups, Materials Research Society (MRS), Phoenix, AZ, April 2016. (Poster)
- M. Antensteiner, M. Khorrami, M. R. Abidian, Conducting Polymer Microspherical Cups for Organic Bioelectronics, 10th World Biomaterials Congress (WBC), Montreal, QC Canada, May 2016. (Poster)
- M. Khorrami, M. R. Abidian, Controlled Release of Anti-Inflammatory Drug from Conducting Polymer Microcups, Materials Research Society (MRS), Boston, MA, December 2016. (Presentation)

Achievements

- Top marked in Thermodynamic course graduate level at Penn State University
- Selected as "Best Poster" at Materials Research Society (MRS) conference fall 2015
- Awarded for Cullen Fellowship Travel Grant, University of Houston, Spring 2016

Working Experience

- **Setting up new lab** at university of Houston under supervision of new faculty Dr.Abidian 2015
- **Internship** research and development department - Parsa Polymer Sharif Tehran –Iran 2013
- **Internship** Interior Manager Sharif Metal Co. Tehran, Iran (Research corporation about metal forming)

Language

- English: fluent
- Persian: Native

Computer Skill

- Programming Languages: Pascal, Matlab
- Application Software: Origin, Adobe Illustrator and Photoshop

Hobbies and Activities

- Swimming, Mountain Climbing
- Playing piano, Photography, Fitness, cooking