

[Behtash Shakeri] | [Resume]

[2731 S Blair Stone Rd. APT 10, Tallahassee, FL 32301] | [207-570-8178] | [bshakeri@fsu.edu]

Experience

- [Graduate Assistant in Business]** – [Florida State University] [Summer 2018 – Present]
Research assistantship in business administration under supervision of Dr. Charles Hofacker.
- [Adjunct Faculty]** – [Tallahassee Community College] [Spring 2018 – Present]
Teaching undergraduate level experimental courses.
- [Graduate Assistant in Science]** – [University of Maine / Florida State University] [Fall 2012 – Fall 2017]
Quantitative analysis and material characterization:
Proficient: UV/Vis, FT-IR, qNMR, TGA, AFM, XRD, Thin film and air-free synthesis
Experienced: AAS, XPS, SEM, Elemental Mass Spectroscopy
Familiar: GC, HPLC and SEC.
Teaching Assistantship: General and organic chemistry.
- [Process and Instrumentation Engineer]** – [Ab Pardazan Bahar Co., Tehran - Iran] [Spring 2011 – Summer 2012]
Design, modification and verification of wastewater treatment plant structure and equipment plans.
Quantity survey and estimation. Plant 3D modeling.

Education

- [Florida State University]** – [MBA, Tallahassee - FL] [Summer 2018 – Spring 2019]
With coursework focus on supply chain management.
- [Florida State University]** – [Chemistry M.S., Tallahassee - FL] [Spring 2015 – Fall 2017]
Research focus on surface modification of silica nanoparticles with a zwitterionic ligand and study the interactions with polyelectrolyte complex coacervates.
Highlighted Coursework: Polymer Synthesis, Nano biomaterials, Mass Spectrometry.
- [University of Maine]** – [Chemistry M.S., Orono-ME] [Fall 2012 – Fall 2014]
Research on optical properties of CdSe semiconductor nanocrystals.
Highlighted Coursework: Nanotechnology, Electrochemistry, NMR Spectroscopy
- [Sharif University of Technology]** – [Chemistry B.S., Tehran-Iran] [Fall 2012 – Spring 2011]
Research on synthesis and size control of silver nanocubes and hollow gold nanocages using poly-ol method

Leadership

- [Florida State University]** – Iranian Student Association President [Fall 2016 – Present]
Coordinating communications and organization activities.
- [Sharif University of Technology Students Gov't]** – Chemistry Dept. Representative [Fall 2007 – Summer 2009]
Representing chemistry undergraduate students in the campus wide council.

Skills:

Operating Systems: Microsoft Windows, Linux, iOS.

Applications: Microsoft Office, Common Productivity applications, Adobe Photoshop, Corel Draw

3D Modeling Applications: AutoCAD (Plant 3D, MEP), Google Sketch up, Rhino

Programming Languages: C, C++, Java, Python, Matlab

Scientific Applications: LIMS, Gaussian, Spartan, Chem Office, MestRenova, Igor Pro

Human Languages: Persian (Native), English (Proficient), Arabic (Reading)

Publications

“New Insights into the Nanostructure of Innovative Thin Film Solar Cells Gained by Positron Annihilation Spectroscopy”. J. Phys. Conf. Ser. 2017, 791 (1), 12021.

“Comprehensive understanding of the surface positron lifetime and wave function in CdSe quantum dots” pending approval to Physical Review Letters, Oct 2017.e

B. Shakeri, R. W. Meulenberg, “A Closer Look into the Traditional Purification Process of CdSe Semiconductor Quantum Dots” Langmuir 2015 31 (49), 13433-13440.

B. Shakeri, R. W. Meulenberg, “Correlation of Surface Composition to Optical Properties of CdSe Nanocrystals.” ECS Trans., 61, issue 5, 229-235 (2014).

Presentations

“Mobility of Probe Nanoparticles in Polyelectrolyte Complex Coacervates” [Summer 2017]
Department of Chemistry and Biochemistry, Florida State University.

“A Quantitative Study on Zwitteration Reaction of Silica Nanoparticles”, [Fall 2016]
Department of Chemistry and Biochemistry, Florida State University.

“Correlation of Surface Composition to Optical Properties of CdSe Nanocrystals”, [Summer 2014]
225th ECS Meeting, Orlando, FL

“Study on Effect of Purification on Surface Composition of CdSe Nanocrystals”, [Summer 2014]
Gordon Research Conference, Smithfield, RI

“Surface Characterization of Colloidal Nanocrystals Using Common Experimental Methods”, [Fall 2013]
Department of Chemistry, University of Maine.