

MITRA SADEGHIPOUR, PhD

Address: 2442 Allwood Rd, Scotch Plains, NJ, 07076 • Phone: 973.771.9215 • Email: mxs157@hotmail.com

QUALIFICATIONS PROFILE

Dedicated, passionate, and enthusiastic Organic Chemist with more than 20 years of multidisciplinary teaching and research experience, instructing and training undergraduate students and technicians as well as directing and managing chemistry laboratories.

- Experienced University Professor specialized in many areas of Chemistry including Organic, Biochemistry and General Chemistry
- Proficient at teaching approaches and instructional technology that engage, challenge and support students and ensure rewarding, effective and practical learning experience.
- Highly efficient, organized and equipped with a positive, can-do attitude.
- Excellent interpersonal skills and impeccable written and verbal communication skills.

EDUCATION

DOCTOR OF PHILOSOPHY IN PHYSICAL ORGANIC CHEMISTRY
Virginia Tech | Blacksburg, VA, USA

MASTER OF ARTS IN PHYSICAL ORGANIC CHEMISTRY
Ball State University | Muncie, IN, USA
Graduate Search Committee

BACHELOR OF SCIENCE IN APPLIED CHEMISTRY
Aryamehr (Sharif) University of Technology | Tehran, Iran

WORK EXPERIENCE

TRINITY COLLEGE

Assistant Professor

2021–present

- Teaching Introductory Chemistry course and labs.

FAIRLEIGH DICKINSON UNIVERSITY

Adjunct Professor

2018–2021

- Teaching Polymer Chemistry for Senior level undergraduate and Graduate level
- Teaching sophomore Organic Chemistry course for majors and non-majors.
- Teaching Organic Chemistry lab online and in-person
- Teaching General Chemistry course

KEAN UNIVERSITY

Adjunct Professor

2017–2021

- Teaching Chemistry in your world lecture to non-science majors
- Teaching General-Organic-Biochemistry lecture and lab for nursing and pre-health majors.
- Teaching General Chemistry lecture and lab.

UNION COUNTY COMMUNITY COLLEGE

Adjunct Professor

2015–2021

- Teaching Forensic Chemistry lab.
- Teaching Organic Chemistry and Biochemistry lecture and lab for nursing students.
- Teaching College Chemistry lecture and lab for non-science majors.

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RUTGERS UNIVERSITY

Part Time Lecturer

2019–2020

- Teaching sophomore Organic Chemistry course recitation for majors and non-majors.
- Teaching General Chemistry course online recitation.

SETON HALL UNIVERSITY

Assistant Professor (Term)

2016–2017

- Taught General-Organic-Biochemistry course for nursing students and coordinated and managed Teaching Assistants for teaching the lab section.
- Taught teaching Organic Chemistry course for pre-health majors.
- Taught Organic Chemistry lab and coordinated and managed Teaching Assistants for teaching the lab section.

SETON HALL UNIVERSITY

Adjunct Professor

2015–2016

- Taught Organic Chemistry course for pre-health majors.

STUDENTS 2 SCIENCE, INC., EAST HANOVER, NJ, USA

Mentor-Instructor (Volunteer)

2014–Present

- Inspire, motivate, and educate middle and high school students about chemistry by providing authentic work-related experience by conducting hands-on experiments using state-of-the-art instrumentation.
- Instruct students as they conduct each experiment. Provide information in a clear and concise manner, helping to instill confidence and generate excitement with science and laboratory work.
- Answer students' questions about the professional work environment and career application of the laboratory techniques being used.

FROSTBURG STATE UNIVERSITY, Frostburg, MD, USA

Lecturer-Researcher

2009–2010

- Developed a novel extraction process for universal use in Black Cohosh study
- Devised and implemented an HPLC based method for quantification of Black Cohosh extracts process
- Conducted research in support of the Appalachian Center for Ethnobotanical studies aimed at comparing properties of different Black Cohosh populations (developed one paper for publication)
- Conducted lectures and laboratory classes on General Chemistry.
- Effectively implemented an innovative virtual classroom complementary to the class, to provide homework and quizzes with instant feedback and an up-to-date grading system for students' access.
- Utilized virtual learning techniques to assess student learning as applicable by academic discipline and keep them informed of their academic progress.
- Developed student response system (Clickers) to increase students' engagement inside the classroom.

JOHN CARROLL UNIVERSITY, Cleveland, OH, USA

Adjunct Professor

2007–2008

- Facilitated various lectures and laboratory classes including Chemistry in Society, Organic Chemistry, and Fundamental of Chemistry.
- Planned optimal learning environment for students by using teaching videos related to the subject and engaging them in discussion afterwards.
- Organized and led in-class Q&A weekly sessions to encourage brain stimulation among students.
- Advised students regarding program and career to help them make informed academic decisions leading to degree or certificate completion.

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KENT STATE UNIVERSITY, Kent, OH, USA

Adjunct Professor

2007–2008

- Efficiently managed classroom lectures and laboratory classes in general-organic-biochemistry and Fundamental of Chemistry.
- Delivered effective instruction to majors and non-majors including nursing students.
- Participated in the selection of appropriate materials for academic departments' course curriculum in accordance with the university guidelines.

PHARMAGAP INC., OTTAWA, CANADA

Research & Development Chemist

2001–2005

- Participated in the development of a novel Protein kinase C (PKC) inhibitor from modeling to the synthesis of molecules and peptides
- Utilized prep-HPLC to purify synthetic compounds
- Extensively studied the biological activity of synthetic compounds using western blot and ELISA
- Applied analytical HPLC and LC-MS for quantitative and qualitative measurement of intra- and extra-cellular synthetic compounds
- Collaborated with biologists to design an Enzyme-Linked Immuno Assay (ELISA) kit for PKC inhibition activity measurement
- Completed an independent research project studying peroxynitrite inhibition activity of natural products and plant extracts (developed two papers for publication)
- Supervised and trained two students, two technicians, and one Research and Development chemist to help with the projects

NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA, CANADA

Research Fellow

1999–2001

- Conducted research on different reactive oxidative species such as peroxynitrite
- Performed comprehensive study on tyrosine and tryptophan competition reaction towards peroxynitrite oxidation reaction utilizing different analytical instruments such as analytical HPLC and LC-MS
- Identified and quantified reaction product through reaction of peroxynitrite with a few amino acids and peptides
- Initiated peptide synthesis utilizing robotic peptide synthesizer

PROFESSIONAL AFFILIATION

- American Chemical Society (1993- Present)