

# Alireza Lashkaripour

Theoretical Chemistry

Physical Chemistry

02/04/2000

Department of Chemistry, Faculty of Nano and Bioscience and Technology, Persian Gulf University, Bushehr, Iran.

alireza.lashkaripour00@gmail.com

LinkedIn: Alireza Lashkaripour

Researchgate: Alireza Lashkaripour

GitHub: Alireza-Lashkaripour

Phone: +98 939 789 3243



## Education

2022 – Present Master of Physical Chemistry at Persian Gulf University, Bushehr, Iran.

2018 - 2022 Bachelor of Pure Chemistry at Persian Gulf University, Bushehr, Iran.

Graduated with First-Class Honors

## Working Experiences

Jan 2023 – Present **Tutor at Varsity Tutors, a Nerdy Company.** Teaching Chemistry, Quantum Chemistry and Physical Chemistry.

Sep 2022 – Present **Research Assistant at Persian Gulf University, Bushehr, Iran.** Under Supervision of Prof. Fazel Shojaei.

Oct 2021 – Present **Instructor at Student Scientific Association of Pure Chemistry, Persian Gulf University, Bushehr, Iran.**

Apr 2021 – Present **Managing Partner at Student Scientific Association of Pure Chemistry, Persian Gulf University, Bushehr, Iran.**

Oct 2022 – Jan 2023 **Quantum Mechanics Tutor, Bushehr, Iran.** As Self-employed.

Sep 2022 – Jan 2023 Teaching Assistant at Persian Gulf University, Bushehr, Iran. Master's Quantum Mechanics Course, Instructor: Prof. Leyla Maftoun.

Sep 2022 – Jan 2023 **Teaching Assistant at Persian Gulf University, Bushehr, Iran.** Advanced Bachelor's Quantum Chemistry Course, Instructor: Prof. Fazel Shojaei.

Apr 2022 – Oct 2022 **Instructor at Student Scientific Association of Mechanical Engineering, Persian Gulf University, Bushehr, Iran.**

Aug 2022 – Oct 2022 **English Translator at AniPlus.me.**

Sep 2020 – Aug 2022 **Research Assistant at Persian Gulf University, Bushehr, Iran.** I am learning the scientific method in research and computational chemistry and nanochemistry under the supervision of Prof. Fazel Shojaei.

Jun 2022 – Jul 2022 **Physical Chemistry Instructor, Bushehr, Iran.** I am teaching physical chemistry to pure chemistry students as a Self-employed.

Jul 2020 – Jun 2022	<b>Solid State Physics Instructor, Bushehr, Iran.</b> I am teaching solid-state physics to Mechanical Engineering students as a Self-employed.
Oct 2020 – Mar 2021	<b>Blogger at Homa Idea Group, Tehran, Iran.</b> Homa Idea Group is an advertising agency that works with a variety of companies to make creative advertisements.
Aug 2020 – Mar 2021	<b>Creative Team Member at Homa Idea Group, Tehran, Iran.</b> Homa Idea Group is an advertising agency that works with a variety of companies to make creative advertisements.
Dec 2020 – Feb 2021	<b>Support Associate at Namaline, Tehran, Iran.</b> Namaline is the Iran Online Exhibition Platform.
Nov 2019- Oct 2020	<b>Stage Manager at Entrepreneurship Club of Persian Gulf University, Bushehr, Iran.</b> I was the stage manager at “Global Entrepreneurship week 2019, Bushehr, Iran” and “Students Entrepreneurship School, Genave, Iran”.
Oct 2018 – Oct 2020	<b>Creativity Manager at Entrepreneurship Club of Persian Gulf University, Bushehr, Iran.</b>
Oct 2019 – Jan 2020	<b>Teaching Assistant at Persian Gulf University, Bushehr, Iran.</b> I was the teaching assistant of Prof.Razavian in General Chemistry Lab II.
Oct 2019 – Dec 2019	<b>Laboratory Assistant at Persian Gulf University, Bushehr, Iran.</b> I was the laboratory assistant of Prof.Razavian in Laboratory Solution Preparation.
Jan 2020 – Feb 2019	<b>Stage Manager at Bushehr Committee of Stem Cell and Regeneration Medicine, Bushehr University of Medical Sciences, Bushehr, Iran.</b> I was the Stage manager at the 3 <sup>rd</sup> Stem Cell Technology Winter School & 1 <sup>st</sup> Modern Medical Technology Winter School.
Oct 2018 – Feb 2019	<b>Managing Partner at Bushehr Committee of Stem Cell and Regeneration Medicine, Bushehr University of Medical Sciences, Bushehr, Iran.</b>
Oct 2018 – Mar 2019	<b>Math Teacher, Bushehr, Iran.</b> I used to teach High School Mathematics as a Self-employed.
Oct 2018 – Mar 2019	<b>Chemistry and Physics Teacher, Bushehr, Iran.</b> I used to teach High School Mathematics as a Self-employed.

## Technical Skills

<sup>1</sup> H-NMR (4/5)	Animal Handling (2/5)
<sup>13</sup> C-NMR (3/5)	Octave (2/5)
IR Spectroscopy (3/5)	OriginPro (1/5)
LaTeX (5/5)	VESTA (1/5)
XMind (5/5)	Materials Studio (2/5)
Linux (2/5)	Python (3/5)
SPSS (1/5)	Data Science (1/5)

Alireza Lashkaripour

MATLAB (1/5)

IQmol GUI (3/5)

Wolfram Mathematica (1/5)

VASP (3/5)

Avogadro (1/5)

Julia Programming Language (2/5)

FORTRAN (1/5)

C++ (1/5)

### **Volunteering Experiences**

Jan 2023	Invited to be an Instructor at “High School Students Startup Event” Organized by Iran's National Elites Foundation
Aug 2022 – Present	Student Member at Iranian Chemical Society, Tehran, Iran.
Aug 2022 – Present	As Persian Translator in Coursera, online.
Dec 2021– Present	Community Member at American Chemical Society, Washington, USA.
Jun 2020 – Jun 2021	Student Member at Iranian Chemical Society, Tehran, Iran.
Sep 2019	As an instructor at the “Break Time in University” event at Shiraz University, Shiraz, Iran.
Aug 2018	As Executive Staff at Iran's National Elites Foundation, Kazeroun, Iran.

### **Teaching Experiences**

Feb 2023	Instructor of “How to Use ChemOffice, From Beginner to Advanced” Workshop Organized by Student Scientific Association of Pure Chemistry in Persian Gulf University, Bushehr, Iran.
Aug 2022	Instructor of “Scientific Presentation” Workshop Organized by Student Scientific Association of Mechanical Engineering in Persian Gulf University, Bushehr, Iran.
Jul 2022	High School Chemistry, Physics, and Math Teacher as Freelancer, Kazeroun, Fars, Iran.
Nov 2021	Instructor of “Solid State Physics” Workshop in Persian Gulf University, Bushehr, Iran.
Sep 2021	Instructor of “ICDL” Workshop Organized by Student Scientific Association of Pure Chemistry in Persian Gulf University, Bushehr, Iran.
Feb 2020	Instructor of “Divergent Thinking” Workshop Organized by Entrepreneurship Club of Persian Gulf University, Bushehr, Iran.
Feb 2020	Instructor of “Teamwork Skills” workshop Organized by Entrepreneurship Club of Persian Gulf University, Bushehr, Iran.
Aug 2019	Instructor of “Teamwork Skills” Workshop Organized by Break Time in University, Shiraz, Iran.
Aug 2019	Instructor of “Tissue Engineering” Workshop Organized by Break Time in University, Shiraz, Iran.

- Nov 2018      Instructor of “Tissue Engineering” Workshop in Persian Gulf University, Bushehr, Iran.
- Feb 2018      Instructor of “Brain Storming” Workshop Organized by Iran's National Elites Foundation, Kazeroun, Iran.

### Research Items

- Oct 2022      [Book Chapter]” Matrix Groups and Symmetry”. [Show publication](#)
- Sep 2022      [Code] “Quick Simple Linear Regression MATLAB Code”. [Show publication](#)
- Sep 2022      [Book] “MATRIX IN CHEMISTRY”. [Show publication](#)
- Aug 2022      [Code] “C++ Program for Numerov Solution of the One-Dimensional Schrödinger Equation”. [Show publication](#)
- Aug 2022      [Data] “Point Groups Flowchart”. [Show publication](#)
- Feb 2022      [Data] “Nanotechnology Timeline”. [Show publication](#)
- Feb 2022      [Data] “<sup>13</sup>C-NMR Chemical Shifts”. [Show publication](#)
- Jan 2022      [Data] “<sup>1</sup>H-NMR Chemical Shifts”. [Show publication](#)
- Apr 2021      [Book Chapter] “Quantum Chemistry: The Particle in a Box”. [Show publication](#)
- Mar 2021      [Book Chapter] “Introduction to Quantum Chemistry: The Schrödinger Equation”. [Show publication](#)

### Conferences

- Jun 2022      “What Is The CERN?”, Persian Gulf University, Bushehr, Iran.
- Apr 2022      “Introduction to Standard Model of Elementary Particles”, Persian Gulf University, Bushehr, Iran. [DOI](#)
- Feb 2022      “Stimulated Emission: Lasers”, Persian Gulf University, Bushehr, Iran. [DOI](#)
- Dec 2021      “WHAT IS A CHROMOPHORE?”, Persian Gulf University, Bushehr, Iran. [DOI](#)
- May 2021      “Introduction to Germanane: Properties, Synthesis, and Methods”, Persian Gulf University, Bushehr, Iran. [DOI](#)
- Apr 2021      “The basic principles of homogeneous processes for Chemical Industry Course”, Persian Gulf University, Bushehr, Iran. [DOI](#)
- Mar 2021      “The Crystalline Solid State for undergraduate students”, Persian Gulf University, Bushehr, Iran. [DOI](#)

- Apr 2019      “The works of The Saadi Shirazi” in Saadi’s Day, Persian Gulf University, Bushehr, Iran.
- Dec 2018      “Introduction to Tissue Engineering” in Bushehr Committee of Stem Cell and Regenerative Medicine, Bushehr University of Medical Sciences, Bushehr, Iran.
- Mar 2017      “Jupiter” in “Fun with Physics”, Kazeroun, Iran.

## Honors & Achievements

- 2022    2<sup>nd</sup> Place in “Monthly Competition. Subject: Atomic Force Microscopy” Organized by Nanoeducation.ir.
- 2022    Acceptance With 1<sup>st</sup> Rank in Masters of Physical Chemistry at Persian Gulf University.
- 2022    Received LinkedIn Skill Assessment Badge for Python.
- 2022    Received LinkedIn Skill Assessment Badge for MATLAB.
- 2022    Coursera GTC Statement of Accomplishment (15,000 WORDS badge).
- 2021    I was one of the selected individuals in the first round of the 10<sup>th</sup> National Competition of Nanotechnology.
- 2020    1<sup>st</sup> place in Student Debate Competition of Persian Gulf University, Bushehr, Iran.
- 2019    1<sup>st</sup> & 2<sup>nd</sup> places in Startup Weekend of Azad University, Bushehr, Iran.
- 2017    1<sup>st</sup> place in “Antibiotic Resistance Competition” organized by Iran's National Elites Foundation. Kazeroun, Fars, Iran. (High School)
- 2014    1<sup>st</sup> place in the Persian Literature Competition of Kazeroun, Fars, Iran. (Secondary School)
- 2013    1<sup>st</sup> place Laboratory Skills, Kazeroun, Fars, Iran. (Secondary School)

## Licenses and Certifications

- Sep 2022      Certificated by the Korea Advanced Institute of Science and Technology for completing the” Introduction to Quantum Information” course. [Show credential](#)
- Sep 2022      Certificated by MathWorks for completing the” MATLAB Onramp” course. [Show credential](#)
- Sep 2022      Certificate of Membership, Iranian Chemical Society. Membership No. 9938572456.
- Aug 2022      Certificated by the University of Michigan for completing the” Using Python to Access Web Data” course. [Show credential](#)
- Aug 2022      Certificated by the University of Tokyo for completing the” From the Big Bang to Dark Energy” course. [Show credential](#)
- Aug 2022      Certificated by the University of Michigan for completing the” Python Data Structures” course. [Show credential](#)

Aug 2022	Certificated by IBM for completing the” Data Science Methodology” course. <a href="#">Show credential</a>
Aug 2022	Certificated by Caltech for completing the” The Science of the Solar System” course. <a href="#">Show credential</a>
Aug 2022	Certificated by IBM for completing the” Tools for Data Science” course. <a href="#">Show credential</a>
Aug 2022	Certificated by the University of Cape Town for completing the” Julia Scientific Programming” course. <a href="#">Show credential</a>
Jul 2022	Certificated by Google for Attending the” Quantum Summer Symposium 2022”.
Jul 2022	Certificated by the University of Michigan for completing the” Getting Started with Python” course. <a href="#">Show credential</a>
Jul 2022	Certificated by the University of Colorado Boulder for completing the” Quantum Mechanics” course. <a href="#">Show credential</a>
Jul 2022	Certificated by the Georgia Institute of Technology for completing the” Material Processing” course. <a href="#">Show credential</a>
Jul 2022	Certificated by Stanford Online for completing the” Introduction to Mathematical Thinking” course. <a href="#">Show credential</a>
Jul 2022	“Data Science Orientation” badge Certificated by IBM. <a href="#">Show credential</a>
Jul 2022	Certificated by Alison for completing the” Chemical Reactions and Kinetics” course.
Jul 2022	Certificated by the University of Minnesota for completing the” Statistical Molecular Thermodynamics” course. <a href="#">Show credential</a>
Jul 2022	Certificated by Duke University for completing the” Nanotechnology: A Maker’s Course” course. <a href="#">Show credential</a>
Jul 2022	Certificated by Oxford Instruments for Attending the” Broadband benchtop NMR spectroscopy” workshop.
Jun 2022	Certificated by the University of Geneva for completing the” Particle Physics: An Introduction” course. <a href="#">Show credential</a>
May 2022	Certificated by the University of Manchester for completing the” Introduction to Molecular Spectroscopy” course. <a href="#">Show credential</a>
Apr 2022	Certificated by the École Polytechnique for completing the” Density Functional Theory” course. <a href="#">Show credential</a>
Mar 2022	Certificated by the Sharif University of Technology for Attending the” Introduction to Density Functional Theory” school.
Mar 2022	Certificated by the Nature Conferences for Attending the” Breaking Barriers for Gender Equity Through Research”.

Alireza Lashkaripour

Apr 2022	Certificated by the Nature Conferences for Attending the” Understanding COVID-19 to Prepare for the Next Pandemic”.
Feb 2022	Certificated by WHO for completing the “Basic Microbiology” course. <a href="#">Show credential</a>
Nov 2021	Certificated by the Nature Conferences for Attending the “Hungry for Change: Food Systems for Nutrition and Health”.
Oct 2021	Certificated by Nature Nanotechnology for Attending the “15 years of Nature Nanotechnology” webinar.
Apr 2021	Certificated by Nanokimia for completing the “Synthesis of Nano Materials”, Tehran, Iran.
Nov 2019	Certificated by the Entrepreneurship Club of Persian Gulf University for Being the “Exclusive staff at Startup Weekend of Genave”, Bushehr, Iran
Feb 2020	Certificated by the Entrepreneurship Club of Persian Gulf University for Being the” Exclusive staff at Global Entrepreneurship week 2019”, Busher, Iran.
Sep 2018	Certificated by the Royan Institute for Attending the “2 <sup>nd</sup> Summer School on Cell & Gene Therapies”, Fasa, Fars, Iran.
Sep 2018	Certificated by the Shiraz University for Attending the “12 <sup>th</sup> Break Time in University”, Shiraz, Iran.

## Languages

Persian	Native
Turkish	Native
English	C2
Arabic	B1
German	A1

## References

Fazel Shojaei, Assistant Professor at the Department of Chemistry, Faculty of Nano and Bio Science and Technology, Persian Gulf University, Iran. Contact: [fshojaei@pgu.ac.ir](mailto:fshojaei@pgu.ac.ir)

Hosein Eslami, Full Professor at the Department of Chemistry, Faculty of Nano and Bio Science and Technology, Persian Gulf University, Iran. Contact: [heslami@pgu.ac.ir](mailto:heslami@pgu.ac.ir)