

Skills

- Strong analytical and mathematical skills
- 10 years of demonstrated independent and collaborative research experience
- Proficient in programming and numerical modeling using Fortran, Python, and Matlab.
- Expertise in developing applications using JavaScript, HTML, React, React-Hooks, CSS.
- Experienced in using Machine Learning, Data Visualization, NodeJs, Maple
- Experience working with multiprocessing and parallelized code
- Effective writing and technical presentations skills, experienced in team work

Experience

- **Scientific Application Developer @ Kings Distributed Computer Labs** **Sep 2019 to Jun 2020**
 - Ported mathematical functions and classes from Python to JavaScript to develop an application that demonstrate the Sawtooth oscillation in tokamak fusion reactors
 - Ported mathematical functions from Matlab to JavaScript to develop an application which is used to show the magnetic confinement fusion
- **Doctoral Researcher @ Queen's University** **Jan 2015 to Sep 2019**
 - Modelling carrier dynamics in 2D materials
 - Modelling nonlinear response of 2D materials in waveguide geometries
 - Numerical analysis of microscopic scattering processes on nonlinear response of 2D materials
 - Analytical & numerical response of monolayer graphene to terahertz radiation via length gauge & velocity gauge
- **Research Assistant @ Tabriz University** **Sep 2009 to Jul 2012**
 - Numerical analysis of quantum dot lasers
 - Numerical analysis of multi quantum well Superluminescent diodes

Education

Ph.D., Physics Queen's University, Kingston, ON, Canada Thesis: <i>Nonlinear Response of Monolayer Graphene to THz Frequency Radiation</i>	Jun 2019
M.Sc., Physics-Photonics University of Tabriz, Tabriz, Iran	Jan 2012
B.Sc., Physics University of Tabriz, Tabriz, Iran	Sep 2009

Projects

<https://github.com/parvinnavaeipour/titanic-Machine-Learning-from-Disaster>
<https://www.kaggle.com/c/competitive-data-science-predict-future-sales>

Training and Professional Development

- **Python for Data Science and AI**

Issuing Organization: IBM;

- **Intro to SQL, Advanced SQL, Pandas, Data Visualization, Intro to Machine Learning, Intermediate Machine Learning**

Issuing Organization: Kaggle; Issue Date: May 2020;

- **Python**

Issuing Organization: IBM; Issue Date: April 2020; Badge URL: https://www.youracclaim.com/badges/1215f8fe-a6b8-4edc-9a6d-5ff8df045421/public_url

- **Machine Learning**

Issuing Organization: Coursera; Issue Date: April 2020; Credential ID: 5FXTRGQ3WZ9E; Credential URL: <https://www.coursera.org/account/accomplishments/certificate/5FXTRGQ3WZ9E>