

Sina Bahrasemani

Data Scientist . Machine Learning Expert . Computational Physicist

Experienced Data Scientist, Computational Physicist, and Researcher with a strong background of working in large international collaborations like ATLAS Experiment at CERN ; Highly skilled in Data Analysis, Big Data, Machine Learning, and Python/C++ Programming languages.

Experience

2016–2019	<div>Analysis Leader</div> <div><i>CERN & Simon Fraser University</i></div> <div>Acting as the main analysis leader in searching for rare physics phenomena through Petabytes of proton-proton collision data recoded by the ATLAS experiment</div>
2014–2019	<div>Software Developer</div> <div><i>CERN & Simon Fraser University</i></div> <div><ul style="list-style-type: none">Data wrangling, engineering and warehousingDeveloping and maintaining analysis software in C/C++ and Python</div>
2014–2019	<div>Machine Learning Expert</div> <div><i>CERN & Simon Fraser University</i></div> <div><ul style="list-style-type: none">Developing sophisticated Machine Learning software for estimating properties of elementary particlesDesigning Boosted Decision Trees and Neural NetworksGreat experience of working with Scikit-learn, TensorFlow, TMVA and other ML libraries.</div>
2015–2017	<div>Lecture Designer</div> <div><i>Air Tutors</i></div> <div>Designing university level online courses in Physics and Mathematics</div>
2014–2019	<div>Teaching Assistant</div> <div><i>Simon Fraser University</i></div> <div>Running variety of undergraduate tutorials and assisting instructors</div>

Education

2014–2019	<div>Ph.D in Experimental Particle Physics</div> <div><i>Simon Fraser University (supervisor: Prof. Dugan O’Neil)</i></div>
2011–2014	<div>Master’s Degree in Theoretical Physics</div> <div><i>Sharif University of Technology</i></div>
2007–2011	<div>Bachelor’s Degree in Physics</div> <div><i>Shiraz University</i></div>

Relevant Courses

	<ul style="list-style-type: none">Algorithms Specialization @StanfordXPython Programming @ MITXC/C++ Programming @ HarvardX & MicrosoftX
2015–2019	<ul style="list-style-type: none">Foundations of Data Analysis @ AustinXMachine Learning @ StanfordX & SFUDeep Learning @ MicrosoftXDeep Learning with Tensorflow @ IBM

Contact Details

Address: Burnaby, BC, CA
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Email: sbahrased@sfu.ca
LinkedIn
Google Scholar
Gitlab

Professional Skills

Data Analysis
Machine Learning
Software Development
Computational Physics
Distributed Computing

Programming

Python
C/C++
SQL/MySQL/Excel
Apache Spark
R/Matlab

Personal Skills

Problem Solving
Hardworking
Punctual
Self-Motivated
Initiative
Organized

Interests

Data Science
Machine Learning
Deep Learning
Software Engineering
Quantum Computing
Computational Physics