ShahRukh Athar

Education

2016–2018 **M.Sc Computer Science**, *Skolkovo Insitute of Science and Technology*, Moscow, Russia.
GPA: 4.79/5.0

2012–2016 **B.Sc (Research) Physics**, *Shiv Nadar University*, Gautam Buddha Nagar, India, Minor: Mathematics.
GPA: 8.23/10.0

Teaching Experience

Shiv Nadar University

Spring 2016 **TA**, *CSD-201: Introduction to Data Structures*.

Monsoon 2013 **TA**, *PHY-105: Introduction to Computational Physics I*.

Spring 2014 **TA**, *PHY-102: Introduction to Physics II*.

Monsoon 2014 **TA**, *PHY-105: Introduction to Computational Physics I*.

Programming Languages and Technologies

Languages C, C++, Python, JavaScript, Matlab, Common Lisp

DL Frameworks PyTorch, Keras, Tensorflow, Lasagne, Theano

Internships

Summer 2017 Intern at SigTuple, Bangalore
Worked on weakly supervised fluid-filled region localization in Retinal OCT scans.

Summer 2016 Intern at Computational Materials Discovery Laboratory, Moscow Institute of Physics and Technology
Worked on using deep learning in crystal structure and property prediction.

Summer 2015 Intern at Computational Materials Discovery Laboratory, Moscow Institute of Physics and Technology
Worked on machine learning algorithms for crystal structure and property prediction. Created the Anduril neural network library.

Summer 2014 Intern at Oganov's Lab, Stony Brook University
Created a webapp that generates input files for the USPEX algorithm.

✉ *shahrukh.athar@skolkovotech.ru* • *https://github.com/srxdev0619*
http://shahrukhathar.github.io/

Publications

2018 ShahRukh Athar, Abhishek Vahadane, Ameya Joshi, Tathagato Rai Dastidar. *Weakly Supervised Fluid Filled Region Localization In Retinal OCT Scans*. ISBI 2018.

Undergraduate thesis

2016 Predicting Amplitudes of the *e*A (Electron-Ion) interaction with Machine Learning

For my undergraduate thesis I used neural networks to predict amplitudes of electron-ion collisions. The predictions of amplitudes is essential to study the structure of the nucleus of the ion.

Projects

Anduril

Anduril is a neural network library written in C++ for python.

Documentation: `http://srxdev0619.github.io/Anduril-stable/`

Code: `github.com/srxdev0619/Anduril-stable`

Input Generator

A webapp that generates input files for the USPEX algorithm.

Link: http://han.ess.sunysb.edu/input_generator/

Narsil

Narsil is an Octree library for use with the Sartre event generator.

Scholarships and Awards

2016-Present Full Scholarship at Skolkovo Institute of Science and Technology

2012-2016 Full Tuition Fee Waiver at Shiv Nadar University

Extra Curricular Activities

2016 Highest Commendation at MUN:Continuous Crisis Committee at Shiv Nadar University

2014-2016 President of Inspiria, the business club of Shiv Nadar University