National Center for Supercomputing Applications
University of Illinois, Urbana Champaign
Gravity Group
1205 W. Clark St., Room 3101
Urbana, IL 61801
website: khanx169.github.io

Asad Khan   Curriculum Vitae

Current Position

PhD Student in the Department of Physics, University of Illinois
Urbana-Champaign

Research Interests

Multimessenger Astrophysics
Gravitational Waves, Early Universe
Machine Learning, Deep Learning, Data Science, Statistics
Quantum Computing
High Performance Computing
Computer Vision, NLP, Reinforcement Learning

Education

University of Illinois, Urbana-Champaign — *PhD Physics*

September 2015 - Ongoing, Urbana USA

University of Minnesota, Twin Cities — *BS Mathematics, BS Physics*

September 2012 - May 2015, Minneapolis USA

Work Experience

Argonne National Laboratory — *Visiting PhD Student*

June 2021 - May 2022

Goldman Sachs — *Summer Associate*

June 2021 - August 2021

Target — *AI Science Intern*

June 2020 - August 2020

Capital One — *Research Intern*

January 2019 - June 2019

National Center for Supercomputing Applications — *Gravity Group*

Research Assistant, June 2018 - Present

Observational Cosmology — *SPIDER Group*

Research Assistant, September 2016 - May 2018

University of Illinois, Urbana-Champaign — *Department of Physics*

Teaching Assistant, September 2015 - May 2018

Awards

NVIDIA AI Hackathon: First Place (Fall 2019)

Excellent Teaching Assistant, University of Illinois (Fall 2016, Spring 2016)

Dean's List, University of Minnesota (Spring 2014, Fall 2012, Spring 2012)

Ramanujan Math Award, Hofstra University (Spring 2012)

Provost's Scholar, Hofstra University (Fall 2011)

Teaching

Teaching Assistant for:

- Physics 212: Electricity and Magnetism (Fall, 2015 - Spring, 2016)
- Physics 214: Quantum Physics (Summer, 2016)
- Physics 211: Mechanics (Fall, 2016)
- Physics 221: Enrichment Mechanics (Spring, 2017)
- Physics 101 Lab: Mech and Heat (Summer, 2018)

Computer Skills

Programming Languages: Python, Java, C, Mathematica, bash, HTML, CSS

Deep Learning APIs: Keras, Tensorflow, PyTorch

Version Control: Git, Gitlab, GitHub

Scientific Software: Numpy, Pandas, SQL, Matplotlib

Operating Systems: Linux, OSX, Windows

Languages

English	Fluent
Urdu	Native
Pashto	Native