Overview of Fellows' Activity

Data Science Education Community of Practice
DSECOP Workshop

June 23, 2022

Mohammad Soltanieh-ha

Clinical Assistant Professor

Information Systems Department
Boston University

Faculty Expert, Google Cloud

Google Cloud

BOSTON UNIVERSITY

Introduction

Education: Computational physics (Ph.D.), Northeastern University 2015

Industry experience: Data scientist, Infor 2015 - 2018

APS Topical Group on Data Science (GDS): Founding chair 2018-2021

Teaching (MBA & MS)
- Big data analytics for business
- Business Analytics Toolbox
- Introduction to Data Analytics

Research
- Computer vision applications in automating cancer diagnosis
- Macroeconomics time series forecasting
- High performance computing

DSECOP Fellows

Team: dsecop.org/team

Sebastian Atalla

Investigating the use of deep learning in denoising and reconstructing hyperpolarized xenon-129 MRI and xenon-enhanced CT
Email: atalla@unc.edu
Web: https://github.com/swatalla
Title: PhD Student
Affiliation: The University of North Carolina at Chapel Hill

Fatemeh Bagheri

Observations of exoplanets orbiting source stars in microlensing events and the direct detection of light reflection from exoplanets.
Email: bagheri.fateme@gmail.com
Web: DSECOP Fellows
Title: NSF Postdoc
Affiliation: The University of Texas at Arlington (UTA)

Julie Butler

Machine learning in many-body studies of the nucleus and related nuclear systems
Email: butle222@msu.edu
Web: DSECOP Fellows
Title: PhD Student
Affiliation: Michigan State University

Cunwei Fan

Deep learning methods to analyze leptons from data produced by hadron collider and Monte Carlo simulation from CERN
Email: cfan11@illinois.edu
Web: DSECOP Fellows
Title: PhD Student
Affiliation: University of Illinois at Urbana Champaign

Radha Mastandrea

Trains neural networks to recognize the physical symmetries of particle collision events and use these symmetries for classification tasks.
Email: rmastand@berkeley.edu
Web: DSECOP Fellows
Title: PhD Student
Affiliation: UC Berkeley, Lawrence Berkeley National Laboratory

Karan Shah

Machine learning accelerated electronic structure simulations for matter under extreme conditions.
Email: k.shah@hzdr.de
Web: https://karan.sh
Title: PhD Student
Affiliation: Center for Advanced Systems Understanding, Helmholtz-Zentrum Dresden-Rossendorf, Görlitz, Germany

DSECOP: Data Science Education Community of Practice

Preparing students for multiple career paths by offering teaching materials to faculty members who teach undergraduate and graduate physics courses.
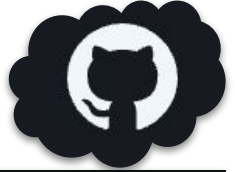
GitHub: bit.ly/DSECOP-GitHub

Table of Contents

Thank you!
Questions?