

Özer Özdal

Contact Information

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Personal Information

- Date of birth
28/05/1990
- Place of birth
Izmir, Turkey

Languages

Native Turkish
Advanced English
French (A2 Level)

Software Skills

Monte Carlo Sampling
Statistical Modeling
Linear regression
Clustering
Quantitative Analysis
Data Visualization

Coursework

- Machine Learning
 - Deep Learning Specialization
- SQL for Data Science
 - Linear Algebra
- Multivariate Calculus
 - Probability Theory
- Computational Physics
 - Classical Mechanics
 - Quantum Mechanics
 - Statistical Mechanics

Tools

PYTHON, C++
SQL, FORTRAN
CERN ROOT, LaTeX
Bash shell scripting
MATHEMATICA, MATLAB

Packages

Scikit-Learn,
NumPy, SciPy,
Pandas, Matplotlib,
Pytorch, TensorFlow

Data Science Experience

since 2018

Machine Learning in High-Energy Physics

Concordia University

My goal is to compare two D dimensional samples: the SM simulated events (background to BSM searches), and the real data, and to check if the two are drawn from the same probability density distribution.

Education

2016–2020

Ph.D. in Theoretical High Energy Physics

Concordia University

Phenomenology of new physics beyond the Standard Model: signals of dark matter and new gauge bosons at colliders. Lead to five scientific publications.

2016–2017

Inter-University Transfer Student

McGill University

Took two graduate courses: Quantum Field Theory I - II

2014–2016

M.Sc. in Theoretical High Energy Physics

Izmir Institute of Technology

The Higgs boson and right-handed neutrinos in supersymmetric models. Lead to two scientific publications.

2009–2014

B.Sc. in Physics (Ranked 3rd)

Izmir Institute of Technology

Revisited N-symmetric barrier tunneling in Quantum Mechanics

Experience

2020–

Postdoctoral Researcher

Concordia University

2016–2020

Research Assistant (RA)

Concordia University

Mariana Frank Research Group

2019-2020

Visiting Ph.D. Student

NExT Institute & University of Southampton

Supported by MITACS Globalink Research Award. Lead to two scientific publications.

2016-2020

Teaching Assistant (TA)

Concordia University

TAed for 8 physics courses. Graded assignments and wrote solutions, lead office hours and tutorial sessions.

2015–2016

Research Assistant (RA)

TUBITAK

Studied muon anomalous magnetic moment and yukawa quasi-unification in supersymmetric Models. Lead to two scientific publications.

2012–2012

Internship

Koç University, Mechanical Characterization Lab

Created vibration modeling in nanowire resonators with mechanical coupling

Relevant Accomplishments

- 7 peer-reviewed scientific publications in High Energy Physics
- Gave 17 talks about my research at conferences
- Awarded Globalink Research Award by MITACS and Graduate Student Mobility Award
- Attended 18 scientific workshops, summer/winter schools in top institutions
- B.Sc. in Physics 3rd Ranked Award