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#### in

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# **SKILLS**

Python

Data analysis and visualization









**MATLAB** 



Laser physics

### LANGUAGES

English

Italian













# **INTERESTS**

Music

Guitar

Photography

Windsurf

Math

Quantum information

# Andrea Amico

PhD in Physics

Problem-solving is what I enjoy the most. I have a scientific mindset and a great passion for programming. During my PhD studies I published on several top scientific journals and I worked with world-leading scientists including the Nobel Laureate Professor Wolfgang Ketterle. I'm currently interested in data science, machine learning and artificial intelligence.

# **WORK EXPERIENCE**

# PhD student in Physics LENS - University of Florence

11/2015 - 03/2019

Top publications:

- □ Josephson effect in fermionic superfluids across the BEC-BCS crossover (Science) ☑
- □ Exploring the ferromagnetic behaviour of a repulsive Fermi gas through spin dynamics (Nature Physics) 🗷
- Repulsive Fermi Polarons in a Resonant Mixture of Ultracold Li-6 Atoms (PRL)
- Connecting dissipation and phase slips in a Josephson junction between fermionic superfluids (PRL)
- Time-resolved observation of competing attractive and repulsive short-range correlations in strongly interacting Fermi gases (PRL) 🗗

# **CERTIFICATES**

#### Deep Learning (2018)

Deep Learning Specialization on deeplearning.ai consisting in 5 courses (Neural Networks and Deep Learning - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Structuring Machine Learning Projects Convolutional Neural Networks - Sequence Models)

### Introduction to Computational Thinking and Data Science (MITx)

Stochastic programming and statistical thinking: Advanced programming in Python 3 - Knapsack problem, Graphs and graph optimization - Dynamic programming - Probability, Distributions - Random walks - Monte Carlo simulations - Curve fitting Statistical fallacies

#### The Complete Web Developer Course 2.0 ☑

HTML5 - CSS - JavaScript - JQuerty - Bootstrap - PHP - MySQL

# Complete C# Unity Developer 2D: Learn to Code Making Games ☑

C# - Unity game engine - object oriented programming

# PERSONAL PROJECTS

Code pills website (2017 – Present)

□ Collection of tips about data analysis using python and jupyter

Music Arcade (2018 - Present)

Educational mobile application to improve musical ear

Custom fitting package in python available on PIP / github

### **EDUCATION**

**PhD in Physics** University of Florence

2019

**Bachelor and Master degree in Physics** University of Florence - 110L/110

2015