

I. Ceyhun Andaç

iceyhunandac@gmail.com | +90 5556745395 | [linkedIn/ceyhunandac](https://www.linkedin.com/in/ceyhunandac) | [github/icandac](https://github.com/iceyhunandac) | <https://web.itu.edu.tr/~andac>

WORK EXPERIENCE

KYOS Energy Consultancy B.V. | QUANTITATIVE ANALYST/DEVELOPER

Haarlem, NL | 2022 – present

Developing quantitative models specifically on energy and commodity assets.

Istanbul Technical University | PH.D. RESEARCHER/TA

Istanbul, TR | 2015 – 2022

Laboratory classes and problem sessions for almost all topics of undergrad physics including numerical and computational methods in physics.

IPAG, Université Grenoble Alpes | PH.D. RESEARCHER

Grenoble, FR | 2020 - 2022

Ph.D. project in theoretical high energy astrophysics, mainly with time series on signal processing and noise characterization | State-of-art HPC simulation codes for more than 200.000 CPU/hours using tools of HPC.

EDUCATION

Ph.D. in Physics/Astrophysics

Istanbul, TR/Grenoble, FR | 2022 (expected)

Istanbul Technical University/IPAG, Université Grenoble Alpes

MSc. in Engineering Physics (Astrophysics)

Istanbul, TR | 2015

Istanbul Technical University

BA in Engineering Physics

Istanbul, TR | 2012

Istanbul Technical University

Coursework: • Calculus • Linear Algebra • (Probability) Statistics and Thermodynamics I&II • C, Fortran Programming • Numerical&Computational Methods in Physics (with MATLAB, C++) • **Nonlinear Physics** • 2020 Astrosim Trainee (CINES, Montpellier, FR) • Linux Administration 1st level (ITU IT Department, Istanbul, Turkey) • Python / Django Training (2014 LKD Camp, Bolu, Turkey) • Various online lectures on **Financial Engineering, DeFi and trading/crypto**

WORKSHOPS & CERTIFICATES

IBM Data Science Professional |

(Online) | 2021

Coursera Online Specialization; 9 courses and a capstone project about DS, ML and various tools.

NVIDIA DLI - Fundamentals of Deep Learning |

(Online) | 2022

An online, all-day-long intense DL introduction to let academics jump start to the subject.

PUBLICATIONS AND PROJECTS

One may take a look at my **portfolio** on my website for a more detailed presentation.

- **4 journal articles** published in high impact journals, by using **analytical/numerical maths, data analysis, statistics, modelling and simulation of timing data, HPC methods and a lot visualization**; h index 3, more than 125 citations. The publications can be found in **orcid** or **ArXiv**. 2-3 more works in preparation.
- **Supervised a graduation thesis** with title: "Representation of complex plasma dynamics with ordinary differential equations by machine learning" using sparse identification method, 2021.
- Researcher in a project of NSF, Turkey about disc magnetosphere interactions of neutron stars, 2013-15.
- An ongoing self-project on **algorithmic crypto trading** via market making strategy with python and **Binance API**.

SKILLS

Languages: Python, MATLAB, Fortran, C, C++, SQL, bash

ML&Scientific: numpy, scipy, pandas, scikit-learn, jupyter-notebook, Maple, Mathematica, Excel

Visualization: matplotlib, seaborn, Gnuplot

Dev. Tools: Git, Latex, Markdown, SSH, SLURM

OS & Administration: GNU-Linux, Unix/MacOS, Windows

AWARDS & SCHOLARSHIPS

France Cotutelle Ph.D. Grant • 3 months visiting researcher fund (COST) • Astronomy Olympiad Team Leader (2019)

LANGUAGE

Turkish (Native), English (Fluent), French (Beginner)