

ERBIL CAN ARTUN

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EXPERIENCE

- Researcher | TUBITAK National Metrology Institute** 2025 – Present
- Developing machine learning and data-driven methodologies for early earthquake detection from geomagnetic signals
- Researcher | TUBITAK Research Institute for Fundamental Sciences** 2022 – 2026
- Developed a framework for identifying complex data patterns across multiple scales
 - Organized 17 international scientific events
- Teaching Assistant | Kadir Has University** 2020 – 2026
- Taught statistical mechanics, quantum computing, mechanics, E&M, neuroscience
- Research Scientist | TRK Technology** 2022 – 2025
- Researched and developed algorithmic trading strategies and market analysis tools
- Data Scientist | S2DS Program, Pivigo** 2024
- Developed a predictive analytics solution for UK Gambling Commission lottery market analysis, implementing automated data pipelines and forecasting models
- Science Specialist | Yeditepe University Calibration Laboratory** 2016 – 2017
- Implemented data collection and analysis procedures for precise measurements
- Teaching Assistant – Yeditepe University** 2013 – 2018
- Taught undergraduate lab courses in Mechanics and Electricity & Magnetism
- Graduate Research Fellow | Bogazici University** 2013 – 2015
- Analyzed time-series data to identify chaotic behavior in semiconductor systems
- Undergraduate Research Fellow | Istanbul University** 2010 – 2011
- Researched quantum transport and simulated quantum point contact experiments
- Undergraduate Research Fellow | Harvard University** 2010
- Analyzed long-term statistical impacts of the Chernobyl nuclear disaster

EDUCATION

- PhD in Computational Sciences** at Kadir Has University, Istanbul, Turkey 2020 – 2026
- MA in Philosophy** at Yeditepe University, Istanbul, Turkey 2015 – 2018
- MS in Physics** at Yeditepe University, Istanbul, Turkey 2011 – 2015
- BS in Physics** at Yeditepe University, Istanbul, Turkey 2008 – 2011

SKILLS

Technical: Python, SQL, MATLAB, Mathematica, Pine Script, NetLogo, Git

Analytical: Machine Learning, Reservoir Computing, Predictive Analytics, Nonlinear Dynamics, Complex Systems

Interpersonal: Teamwork, Agile Methodologies, Stakeholder Communication, Teaching

PUBLICATIONS

11 peer-reviewed articles, 1 book chapter, 5 international conference proceedings, 8 invited talks. See the complete list in [ORCiD](#), [Google Scholar](#), or [Research Gate](#).

PERSONAL INTERESTS

Aviation, bushcraft, specialized skills training.