

Dritan Kodra

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Experience

- Dec. 2019 – **Bioinformatician**, *Department of Chemistry*, Aristotle University of Thessaloniki.
Present
- Building pipeline for text mining of data from publications regarding various foods.
 - Gathering of data and creating uniform OMICS databases of various foods for later use in research.
 - Applying machine learning and multivariate statistical methods to large data sets.
- Sept. 2018 – **Data Analyst**, *to the point – Marketing Research Consulting Company*, Enotikon 10, Thessaloniki.
Present
- Constructing and supervising the execution of online public opinion surveys.
 - Using statistical packages and building Python code for analyzing and visualizing survey data.
- June 2014 – **Research Assistant**, *University of Pittsburgh*, Pittsburgh, PA, USA.
April 2018
- Cleaned inhomogeneous data from different groups within the international collaboration.
 - Simulated data to study the errors of redshifts estimated using photometric techniques.
 - Utilized statistical methods and tools to improve the accuracy of photometric redshifts of galaxies in order to study the evolution of galaxies in different environments at different times.
- Aug. 2012 – **Teaching Assistant**, *University of Pittsburgh*, Pittsburgh, PA, USA.
April 2018
- Taught Physics and Astronomy courses to undergraduate students.
- Dec. 2001 – **Helpdesk** – Cashier and IT responsibilities at the following Internet Cafés:
Feb. 2012
- *Digital Entertainment Center (DEC)* – Spyrou Loui 4, Thessaloniki.
 - *GNet (Old DEC)* – Spyrou Loui 4, Thessaloniki.
 - *Battle Grounds (BG)* – Proksenou Koromila 51, Thessaloniki.

Computational Skills

- OS **MacOS**, Windows, Linux
Languages **Python**, Fortran, SQL
Tools **Pandas**, Numpy, Scipy, Astropy, Scikit-learn, Matplotlib, SPSS, Mathematica, Matlab, etc.

Education

- 2018 **PhD in Physics**, *University of Pittsburgh*, Pittsburgh, PA, USA.
Thesis Title: "The Galaxy Morphology–Density Relation at High Redshift with CANDELS".
- 2014 **MSc in Physics**, *University of Pittsburgh*, Pittsburgh, PA, USA.
High level core courses and elective courses in Physics and Astronomy.
- 2012 **MSc in Computational Physics**, *Aristotle University of Thessaloniki*, Thessaloniki, Greece.
Thesis Title: "Cosmological Perturbations with Non–Ideal Fluids".
- 2010 **BSc in Physics**, *Aristotle University of Thessaloniki*, Thessaloniki, Greece.
Core courses and elective courses in Fundamental Physics. Focus in Astronomy.

Languages

- Greek Proficient
English Proficient
Albanian Native Speaker

Raised in Greece
6 years of graduate studies in the US
Born in Albania

Some conferences and workshops

- June 2016 **Statistical Challenges in Modern Astronomy VI**,
Carnegie Mellon University, Pittsburgh, Pennsylvania, USA.

- July 2015 **Santa Fe Cosmology Workshop,**
St. John's College, Santa Fe, New Mexico, USA.
- March 2015 **Neighborhood Workshop on Astrophysics and Cosmology – Part III,**
Penn State University, State College, Pennsylvania, USA.