Oguz Han ATAS

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Education

2017– **Doctor of Philosophy**, *Istanbul University*, Astronomy and Space Sciences, *GPA – 3.11*.

2014–2017 **Masters of Commerce**, *Istanbul University*, Astronomy and Space Sciences, *GPA – 3.16*.

2010–2014 **Bachelor of Business Studies**, *Istanbul University*, Astronomy and Space Sciences, *GPA – 2.95*.

Masters Thesis

Title *Kinematics of Red Giant Branch Stars*

Supervisors Professor Tansel AK

Description This thesis explored the Milky Way structure and how is evolving the Galaxy

Doctoral Thesis

Title *Chemical Evolution of the Solar Neighborhood*

Supervisors Professor Tansel AK

Description With this thesis, I am planning to improve a chemical evolution model of the Milky Way

Experience

Vocational

2015 **Workshop**, Istanbul University, Department of Astronomy, Istanbul.
Workshop of Galactic Structure.

Detailed achievements:
- Information of basic Milky Way structure via some seminar
- Learned how to download a data on internet and reduction using PYTHON
- Learned how to read data using most of PYTHON module (e.g. PyFits, Pandas, ASCII etc.)

2015 **Workshop**, Erciyes University, Department of Astronomy, Kayseri.
Workshop of Open Cluster.

Detailed achievements:
- Learned how to reduction an CCD image using IRAF
- Finally determined photometric parameters for a star

2014 **Conference**, Istanbul University, Department of Physics, Istanbul.
4th Physics Conference.

Detailed achievements:
- Learned what is the basic Cosmology, Atom and particle Physics, Basic Sciences and Mathematical Physics
- Finally showed what is the contribute on the tecnology

2013 **Summer School**, Bogazici University, Feza Gursey Institute, Istanbul.
Turkish Astronomical Society - Physics of Astronomer

Detailed achievements:
- Law of force, Laws of thermodynamics, Law of gravity are informed like about basic Physics Law

Project Overview

2016–2017 **Scholarship Student**, TUBITAK.
Photometric Analysis of Open Clusters NGC 2818 and NGC 3603

Detailed achievements:
- Observational analyses gave opportunity to determine sensitive structural and astrophysical parameters as well as provide up-to-date information of clusters for literature.
- I achieved detailed analyses of open star clusters and practice on me.

2017–2018 **Scholarship Student**, BAP - Research Project.
Investigation of age-metallicity relationship with SDSS Data Around the Sun

Detailed achievements:
- In this project, the kinematics and orbital dynamics of the giant stars evolved around the Sun are calculated and the age-metal abundance relationship for the stars around the Sun are investigated.
- I achieved detailed analyses of the giant stars and practice on me.

2018–2020 **Phd Project**, Council of Higher Education.
100/2000 CoHE Doctoral Scholarship Program

Detailed achivements:
- We aim to develop a device for using in the astronomical fields. Also, with this program will be contributed to some skills about the charge coupled device (CCD) in the photonics laboratory.

2020–2021 **Scholarship Student**, TUBITAK.
Kinematic Investigation and Mapping of the Solar Neighborhood

Detailed achivements:
- With this project, we analyzed and calculated the kinematic parameters by using very recently observational datas.

2021– **Scholarship Student**, TUBITAK.
Investigation of the Scenarios of the Formation and Evolution of the Galaxy with Red Clump Stars

Detailed achivements:
- In this project, we are planning to obtain the initial condition parameters indicating the Milky Way formation.
- Also, it will make a high contribution to the studies of the chemical evolution model of the Milky Way.
- This project enabled for me who will support this study as scholarship to learn detailed analyses of the Milky Way stars and practice on me.

Computer skills

Basic IDL, C++, Java

Intermediate python, IRAF, Xspec, LaTeX, Linux, Microsoft Windows, Linux Server

Detailed achievements:
- I am able to know how is working many Astronomical (astropy, astroml, pyfits etc.) library on **Python**. And I am reading the data via Python modules and I can calculate statistical parameters (standart deviation, fitting slope, mean value etc.). Also, I am able to use multiprocessing to increase rapidity when calculating the parameters (esp. for big datas).
- I am able to reduction an CCD image with **IRAF** step by step. Especially, I have some experinces to reduction of photometric and spectroskopic CCD image on IRAF.
- I am informed what is needed basic stuffs while **observation**.
- Currently, I am learning how to make an analysis for a high energy source such as AGN with **Xspec** software.

Advanced Computer Hardware and Support

Publications

- **Ataş, O.**; Ak, T., 2019, Galactic metallicity gradient from the Red Giant Stars, Galactic Astronomy Workshop Proceedings Books.
- Kilerci Eser, E.; Goto, T.; Güver, T.; Tuncer, A.; **Atas, , O.**, 2020, H.Infrared colours and spectral energy distributions of hard X-ray selected obscured and Compton-thick active galactic nuclei,MNRAS.
- in prep. Döner, S.; Ak, S.; Bilir, S.; Önal Taş, Ö.; Plevne, O.; Bostancı, Z. F.; Yontan, T.; **Ataş, O.**; Ürgüp, H., 2021, The Age-Metallicity Relation in the Solar Neighbourhood from Red Giant Branch Stars of APOGEE, PASA.