

Ioannis Koutalios

Faculty of Science, Leiden University
Home Address: Waldorpstraat 666
The Hague, The Netherlands

jkoutalios@gmail.com
Phone: +30 6989855203
johnkou97.github.io/

Education	<p>M.Sc., Astronomy and Data Science Leiden University, (September, 2024)</p> <p>B.Sc., Physics Aristotle University of Thessaloniki, (November, 2020)</p>
Publications	<p>Predicting binary neutron star postmerger spectra using artificial neural networks with Dr. Nikolaos Stergioulas and PhD candidate Dimitrios Pesios September 2024</p>
Research	<p>M.Sc. Thesis Project: Applying a cross-power model for power suppression in FLAMINGO supervised by Dr. Marcel van Daalen September 2023 - June 2024</p> <p>Reinforcement learning for adaptive optics and exoplanet imaging supervised by Dr. Rico Landman, Dr. Thomas Moerland, and Dr. Aske Plaat October 2023 - February 2024</p> <p>M.Sc. Thesis Project: Finding the best exoplanets to search for exomoons by radial velocity supervised by Dr. Matthew Kenworthy March 2022 - December 2022</p> <p>B.Sc. Thesis Project: Spectral Classification of Neutron Star Post-Merger Gravitational Wave Emission supervised by Dr. Nikolaos Stergioulas Gravitational waves group, Physics Department, Aristotle University of Thessaloniki September 2019 - September 2020</p>
Conference Presentations	<p>BNAIC/BeNeLearn 2024: Joint International Scientific Conferences on AI Poster Presentation, Reinforcement learning for adaptive optics and exoplanet imaging Utrecht, The Netherlands, 18-20 November, 2024</p> <p>79th Dutch Astronomers' Conference Poster Presentation, Applying a cross-power model for power suppression in FLAMNGO Egmond aan Zee, The Netherlands, 13-15 May, 2024</p>
Conferences Attended	<p>78th Dutch Astronomers' Conference Leeuwarden, The Netherlands, 15-17 May, 2023</p> <p>Gravitational-Wave Open Data Workshop (#3 - #7) Remote, May 2020, May 2021, May 2022, May 2023, April 2024</p> <p>2nd g2net Training School University of Malta, Valetta, Malta, 9-13 March, 2020</p>

School on Neutron Star Physics in the Era of Gravitational Wave Astronomy

Eberhard Karls University of Tuebingen, Germany, 13-15 November, 2019

14th Hellenic Astronomical Conference

Volos, Greece, 8-11 July, 2019

3rd HEL.A.S. Summer School and DAAD School on Neutron Stars and Gravitational Waves

Thessaloniki, Greece, 8-12 October, 2018

17th Conference of the Hellenic Physical Society

Thessaloniki, 15-18 March, 2018

Experience	Teaching Assistant for the Course “Reinforcement Learning” (M.Sc.) Leiden University, 2024
	Teaching Assistant for the Course “Science and the Public” (M.Sc.) Leiden University, 2023 - 2024
	Teaching Assistant for the Course “Astronomy Lab and Observing Project” (B.Sc.) Leiden University, 2024
	Private Tutor for Physics, Mathematics and Chemistry 2018 - 2024
	Instructor for the Preparation of the Greek Team for the International Olympiad on Astronomy and Astrophysics Summer 2016, Summer 2018, Summer 2019, Fall 2021, Summer 2022, Fall 2022, Summer 2023
	Grading Assistant for the Course ”Astronomy and Astrophysics” Aristotle University of Thessaloniki, 2018-2020
Volunteer	Public Outreach Guide at the Astronomical Observatory of the Aristotle University of Thessaloniki 2018-2021
Distinctions	Scholarship from Cosmote for undergraduate studies Greece, 2015-2019
	International Olympiad on Astronomy and Astrophysics Honorable Mention , Indonesia, 2015
	Participation , Romania, 2014
Computer Skills	Experties: Python, Jupyter, Git (Github & Gitlab) Linux OS, L ^A T _E X, VS Code Familiar: SQL, C, Mathematica, Matlab Machine and Deep Learning: PyTorch, Tensorflow, Keras, Scikit-learn, Jax Data Science and Mining: Pandas, Numpy, Matplotlib, Seaborn, Scipy, Nbodykit I.T. Skills: Bash, SSH, Anaconda, JupyterHub github/gitlab link: https://github.com/johnkou97 , https://gitlab.com/johnkou97
Languages	English (C2), German (B1), Greek (native speaker), Dutch (beginner)