

Dr Angelos Tsiaras

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Work Experience

- Visiting Professor – Aristotle University of Thessaloniki. October 2024 – Now
- Honorary Senior Research Fellow – University College London. February 2022 – February 2024
- Arcetri Fellow – INAF-Osservatorio Astrofisico di Arcetri. November 2021 – June 2023
- Senior Research Fellow – University College London. February 2020 – October 2021
- Research Fellow – University College London. November 2017 – January 2020
- Part time Research Astronomer – Royal Observatory Greenwich. October 2019 – June 2021

Current research activities

- Atmospheric characterisation of exoplanets with the HST and JWST.
 - 35 peer reviewed publication with +2000 citations, including the first detection of water in the atmosphere of a habitable-zone planet, the first large catalogue of exoplanetary atmospheres, and the first detection of a super-Earth atmosphere.
 - Pioneering machine learning applications in exoplanet data analysis with space telescopes.
 - Leading developer of open-source and user-friendly data analysis software for exoplanets.
- [Ariel Mission \(ESA's M4\)](#).
 - Co-coordinator of the *Ephemerides* working group
 - Co-coordinator of the *ExoClock* Project
 - Member of the Science Ground Segment Group

Community Service

- Panel member for the JWST Cycle 2 Time Allocation Committee. April 2023
- Panel member for the JWST Cycle 1 Time Allocation Committee. February 2021
- Reviewer for Science, Nature Astronomy, ApJ, AJ, A&A, MNRAS, PASP. since 2016
- EPEC Officer of the [Europlanet Society](#) Ireland and UK hub. 2019-2021
- Co-chair of the [EPEC](#) Early Career Support Working Group. 2018-2020

Press releases

- First detection of water in the atmosphere of a habitable-zone planet ([press release](#)):
 - Top article for the physical sciences in the [Altmetric 2019 Top 100](#) (and No 33 overall, [UCL](#))
 - Interviews for top media worldwide (e.g. BBC, Sky, The Guardian), +4000 articles produced
 - In the top 5% of all articles ever tracked by [Altmetric](#).
- First detection of a super-Earth atmosphere ([press release](#))
 - World-wide coverage, translated to more than 10 different languages.
 - Articles: [Hubble Space Telescope](#), [European Space Agency](#), [Europlanet](#), [BBC](#), [Nature](#), [Forbes](#), [Daily Mail](#), [Washington Post](#), [Time](#), [Wired](#).
- First large catalogue of exoplanetary atmospheres ([press release](#))
 - Articles: [Europlanet](#), [EPSC](#).

Education

- **PhD in Astronomy** – VIVA passed with no corrections September 2014 – September 2017
Department of Physics and Astronomy, University College London (UCL), UK.
Thesis: [Towards a population of exoplanetary atmospheres](#) ([external link](#)).
- **BSc in Physics (Ptychion)** 9.38/10.00 – First Class September 2009 – July 2014
Department of Physics, Aristotle University of Thessaloniki (AUTH), Greece. Thesis: [Detection of additional exoplanets and simulation of perturbations on transit light-curves](#).

Fellowships & Awards

- Arcetri Fellowship, Florence, Italy. June 2021
- NASA Postdoctoral Fellowship (offer rejected), NASA Ames, USA. January 2018
- Royal Astronomical Society grant, London, UK. March 2017
- Royal Astronomical Society grant, London, UK. October 2016
- Honorable mention: October 2009
 - 3rd International Olympiad on Astronomy and Astrophysics, Tehran, Iran.
- 2nd prize: 14th Greek National Competition on Astronomy & Space, Volos, Greece. March 2009
- 1st prize: Vasilis Xanthopoulos Mathematics-Physics Competition, Drama, Greece. March 2009

Teaching Experience

- Courses in Aristotle University of Thessaloniki:
 - Calculus I (1st year). 2024 – 2025
 - Astronomy & Astrophysics (3rd year). 2024 – 2025
 - Astrophysics (4th year). 2024 – 2025
 - Observational Astronomy (4th year). 2024 – 2025
 - Planetary Systems (4th year). 2024 – 2025
- MSc students supervised:
 - Luis Thomas, UCL (then PhD at Ludwig Maximilian University, Germany). 2020 – 2021
 - Andrew Jolly, UCL (then PhD at University of New South Wales, Australia). 2019 – 2020
- MSc students co-supervised:
 - James Ozden, UCL (then PhD at University of New South Wales, Australia). 2017 – 2018
 - Yip Kai, UCL (then PhD at University College London, UK). 2016 – 2017
 - Konstantinos Karpouzas, AUTH/UCL (then PhD at U. of Groningen, NL). 2016 – 2017
- Invited lecturer:
 - Observational Astronomy, 2018/19 – 2023/24
4th year undergraduate course, Aristotle University of Thessaloniki
 - UKRI STFC Introductory Course in Astronomy. August 2019
 - ARES Summer school on HST data analysis, Biarritz, France. October 2019
- International Olympiad on Astronomy and Astrophysics (IOAA):
 - Trainer of the students selected to represent Greece at the IOAA on data analysis, observational astronomy, and theoretical astrophysics. 2010 – 2020
 - Invited scientific assistant for Greece: 11th IOAA, Phuket, Thailand. November 2017
 - Grader of the theoretical and data analysis tests: 7th IOAA, Volos, Greece. August 2013

Open-source algorithms and community platforms developed

- [Iraclis \(developer\)](#): Analysis pipeline for HST spectroscopic observations of transiting exoplanets.
- [Wayne \(developer\)](#): Simulation of WFC3 observations.
- [PyLightcurve \(developer\)](#): A python package for modeling and analysing transit light-curves.
- [HOPS \(developer\)](#): A software to analyse data from small ground-based telescopes.
- [ExoTETHyS \(contributor\)](#): An open-source package for modeling exoplanetary transits, eclipsing binaries and related phenomena.
- [ExoClock Platform \(developer\)](#): A citizen science platform that involves professional and amateur astronomers, with the aim of following-up transiting exoplanets with small telescope (+15000 visits per month).
- [ExoWolrds Platform Spies \(developer\)](#): An educational project aiming to bring schools, amateur astronomers and the general public exoplanet closer to exoplanet research (+20000 visits per month).

Citizen Science & Outreach

- Coordinator of the [ExoClock](#) project, a citizen science project that involves professional and amateur astronomers, aiming to following-up transiting exoplanets with small telescopes.
- Science manager of the [ExoWorlds Spies](#) project, an educational project aiming to bring schools, amateur astronomers and the general public exoplanet closer to exoplanet research.
- Co-coordinator of the *Synergies with amateur astronomers* working group of [ARIEL](#) consortium, ESA's M4 mission.
- Delivering astronomy lectures to high schools students at the Royal Observatory Greenwich.
- Developer of user friendly software, made for amateur astronomers and the general public.
- Several invitations for live discussions/interviews
e.g. [Hubble hangouts](#), [BBC Sky at Night](#), [Event horizon](#)
- 15+ talks and workshops for the general public in Greece and the UK since 2009.

Languages

- Greek (native), English (proficient)

Computing

- Programming:
 - Python (excellent)
 - GUI development with Python/TkInter (excellent)
 - website development with Python/Django (excellent)
 - HTML (good)
 - R (good)
 - C (basic)
- Operating systems: Mac OS (excellent), Linux (excellent), Windows (excellent).
- Astronomical Software: MaxIm DL (excellent), The Sky X (good)
- Other: LaTeX (excellent), M. Office (excellent), Mathematica (excellent)