



### Kosmas Gazeas

Title: **Lecturer**

**Department of Physics, Section of Astrophysics, Astronomy and Mechanics**

Phone: **+30 210 7276892 (office)**

Fax: **+30 210 7276725 (office)**

e-mail: **kgaze@phys.uoa.gr** Web page: **<http://www.users.uoa.gr/~kgaze>**

#### Academic Qualifications:

- Degree in Physics, Aristotle University of Thessaloniki
- M.Sc. in Astrophysics, National and Kapodistrian University of Athens
- Ph.D. in Observational Astrophysics, National and Kapodistrian University of Athens

#### Appointments:

- 2006-2009: Research Fellow at Harvard-Smithsonian Center for Astrophysics (CfA), Cambridge, MA, USA
- 2009-2012: Research Fellow at the European Space Agency (ESA), Noordwijk, Netherlands
- 2012-present: Research Consultant at the European Space Agency (ESA), Noordwijk, Netherlands
- 2012-present: Lecturer, Faculty of Physics, University of Athens

#### Teaching: (last 10 years)

##### Undergraduate courses

- Observational Astrophysics
- Applied Optics
- Laboratories of Astrophysics, Physics and Applied Optics

##### Graduate courses

- Methods of Astronomical Observations and Data Reduction

##### Courses in other Departments

- Astronomy I (Department of Mathematics)
- Physics I (Department of Chemistry)

#### Research Interests/Activities: (last 10 years)

##### Observational Astronomy - Astrophysics

- Stellar Evolution of binary stellar mergers
- Primordial Asteroids, small bodies in Solar System
- Galactic and extragalactic stellar populations
- Solar and Lunar Eclipses, transits, occultations
- Asteroseismology

##### Applied Optics

- Astronomical Instrumentation (design, construction and testing of optical instruments)
- Techniques: Astrometry, Spectroscopy and Photometry

##### Space Technology

- LIDAR technology and applications on planetary landing and atmospheric studies
- Optical and thermal study of Nd:YAG crystal slab and applications on laser amplifiers for Earth Observation (ADM-AEOLUS and EarchCARE-ATLID missions).

#### Scientific Publications/Citations: (until Mar. 2022)

- 188 research publications in Astronomy (100 in refereed journals, 88 in conferences)
- 5 research publications in Optics and Instrumentation
- 2156 international citations
- h-index: 26

#### Selected Publications:

- Gazeas, K., Niarchos, P., "Masses and angular momenta of contact binary stars", 2006, MNRAS, 370, L29
- Gazeas, K., Stepień K., "Angular momentum and mass evolution of contact binaries", 2008, MNRAS, 390, 1577
- Stępień, K.; Gazeas, K., "Evolution of Low Mass Contact Binaries", 2012, A&A, 62, 153
- Gazeas, K.; Palafouta, S., "DV Psc: A Magnetically Active Hierarchical Triple System", 2019, A&A, 69, 261,
- Gazeas, K.; Zola, S.; Liakos, A., et al., "Physical Parameters of Close Binary Systems: VIII", 2021, MNRAS, 501, 2897
- Gazeas, K., Loukaidou, G., Niarchos, P., Palafouta, S., et al., "CoBiToM project-I. Contact binaries towards merging", 2021, MNRAS, 502, 2879
- Loukaidou, G. A., Gazeas, K. D., Palafouta, S., et al., "CoBiToM project-II: Evolution of contact binary systems close to the orbital period cut-off", 2021, MNRAS, tmp, 3077, L2021/11

#### Distinctions:

- 1997 **Astronomy Prize of Vasileios Barbanis** awarded for exceptional progress in Observational Astronomy of the Aristotle University of Thessaloniki.
- 2003, July. **Honorary award** at the NASA - International Space Camp in Huntsville, Alabama, USA («Right Staff Award»), for exceptional performance and skills on the communicational and educational program of the NASA - **Space and Rocket Center**.
- 2002-2003. **Scholarship** from the University of Athens, during the postgraduate studies (MSc title).
- 2003-2005. **Scholarship «Hrakleitos»**: Research grant for the PhD degree, EPEAEK II, European Union.
- 2009-2010. **Scholarship** for the European Space Technology & Research Center, ESA/ESTEC, Mechatronics and Optics Division, Noordwijk, Netherlands.

#### Other Activities:

- Science Communication:  
<http://en.planetsinyourhand.phys.uoa.gr>
- Sports, Archery, Hiking, Photography, Volunteering