



HELLENIC REPUBLIC

National and Kapodistrian University of Athens

Department of Physics

Section of Astrophysics, Astronomy and Mechanics



### 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](mailto: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: (current)

##### 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

- General Astronomy I (Department of Mathematics)

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

##### Observational Astronomy - Astrophysics

- Photometry and spectroscopy of variable stars
- Evolution of binary stars
- Galactic and extragalactic stellar populations
- Solar and Lunar Eclipses, transits, occultations
- Asteroseismology

##### Applied Optics

- Astronomical Instrumentation
- 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 EarthCARE-ATLID missions).

#### Scientific Publications/Citations: (until Jan. 2018)

- 147 research publications in Astronomy (75 in refereed journals, 72 in conferences)
- 5 research publications in Optics and Instrumentation
- 1100 international citations
- h-index: 20

#### Selected publications

- Gazeas, K., Stepien K., "Angular momentum and mass evolution of contact binaries", 2008, MNRAS, 390, 1577
- Gazeas, K., Niarchos, P., "Masses and angular momenta of contact binary stars", 2006, MNRAS, 370, L29
- Gazeas, K., "Physical parameters of contact binaries through 2-D and 3-D correlation diagrams", 2009, CoAst, 159, 129
- Gazeas, K.; Baran, A.; Niarchos, P.; Zola, S.; Kreiner, J. M.; Ogloza, W.; Rucinski, S. M.; Zakrzewski, B.; Siwak, M.; Pigulski, A.; Drozd, M., "Physical Parameters of Components in Close Binary Systems: IV", 2005, AcA, 55, 123
- Gazeas, K.; Niarchos, P. G.; Zola, S.; Kreiner, J. M.; Rucinski, S. M., "Physical Parameters of Components in Close Binary Systems: VI", 2006, AcA, 56, 127

#### 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 «Hrakteitos»**: Research grand 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:

- Optical Instrumentation (construction and testing of telescopes, microscopes, spectrographs)
- Photography (astrophotography, aerial, landscapes)
- Sports, Archery, Running, Hiking-Trekking, Volunteering