



Hellenic Republic

National and Kapodistrian University of Athens

Department of Physics

Section of Astrophysics, Astronomy and Mechanics



Stylianos D. Kazantzidis

Academic Rank: **Assistant Professor**

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Education:

- B.Sc. in Physics (National and Kapodistrian University of Athens, Greece)
- M.Sc. in Theoretical Astrophysics (Durham University, United Kingdom)
- Ph.D. in Theoretical Astrophysics (University of Zürich, Switzerland)

Academic Positions:

- 2005-2006: Swiss National Science Foundation Fellow & Institute Fellow (Kavli Institute for Cosmological Physics, The University of Chicago, U.S.A)
- 2006-2008: Institute Fellow (Kavli Institute for Particle Astrophysics & Cosmology, Stanford University, U.S.A)
- 2008-2014: Senior Institute Fellow (Center for Cosmology & Astro-Particle Physics, The Ohio State University, U.S.A)
- 2014-present: Assistant Professor (Department of Physics, National and Kapodistrian University of Athens, Greece)
- August 2016 - September 2016: Visiting Professor (University of Zürich, Switzerland)

Teaching (current):

Undergraduate Courses

- Introduction to Astrophysics (PHYS280)
- Stellar Systems and Galaxies (PHYS252)
- General Theory of Relativity and Cosmology (PHYS262)
- Core Laboratory I (Astrophysics) (PHYS206)
- Astrophysics Laboratory (PHYS242)
- General Astronomy II (Department of Mathematics) (666)
- Cosmology (Department of Mathematics) (866)

Graduate Courses

- Galactic & Extragalactic Astronomy (PHYS191)
- General Theory of Relativity and Cosmology (PHYS261)

Research Interests:

- Computational Astrophysics & Cosmology
- Galactic Dynamics & Hydrodynamics
- Formation of Cosmic Structure & Galaxies
- Formation & Evolution of Supermassive Black Holes
- Dark Matter & Properties of Dark Matter Halos
- Local Group of Galaxies & Dwarf Galaxies
- Numerical Simulations & N-body Codes

Student Supervision:

- Ph.D.'s: 5 (co-supervision - completed)
- Graduate Final Theses: 1 (completed)
- Undergraduate Final Theses : 2 (completed), 2 (pending)

Publication Summary (until June 2018 – source Google Scholar):

- Publications in Refereed Journals: 43
- Publications in Conference Proceedings: 27
- Citations: 3700+
- Publications with 100+ citations each: 15
- Publications with 50+ citations each: 25
- h-index: 32

Selected Publications (100+ citations each):

- **Kazantzidis, S.** et al. "The Effect of Gas Cooling on the Shapes of Dark Matter Halos", 2004, ApJL, 611, L73
- **Kazantzidis, S.** et al. "Density Profiles of Cold Dark Matter Substructure: Implications for the Missing-Satellites Problem", 2004, ApJ, 608, 663
- Mayer, L., **Kazantzidis, S.** et al. "Early Gas Stripping as the Origin of the Darkest Galaxies in the Universe", 2007, Nature, 445, 738
- Mayer, L., **Kazantzidis, S.** et al. "Rapid Formation of Supermassive Black Hole Binaries in Galaxy Mergers with Gas", 2007, Science, 316, 1874
- **Kazantzidis, S.** et al. "Cold Dark Matter Substructure and Galactic Disks I: Morphological Signatures of Hierarchical Satellite Accretion", 2008, ApJ, 687, 731
- Mayer, L., **Kazantzidis, S.** et al. "Direct Formation of Supermassive Black Holes via Multi-Scale Gas Inflows in Galaxy Mergers", 2010, Nature, 466, 1082

Selected Awards & Fellowships:

- 2005: Swiss National Science Foundation Fellowship
- 2006: KIPAC Fellowship (Stanford University, U.S.A)
- 2008: CCAPP Senior Fellowship (The Ohio State University, U.S.A)

Selected Professional Activities:

- Grant Reviewer: NASA & NSF
- Referee: MNRAS, ApJ, Nature, Science, A&A
- Member: Hellenic & American Astronomical Society