

Constantina M. Fotopoulou, Ph.D.

Researcher in Theoretical Computational Astrophysics

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in [linkedin.com/in/astroconstant/](https://www.linkedin.com/in/astroconstant/)

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🐦 [@AstroConstant](https://twitter.com/AstroConstant)

📄 arxiv.org/a/fotopoulou_c_1

🔗 NASA/ADS/constantina_fotopoulou

Education

Sep. 2018 –
Dec. 2022

Ph.D. in Astronomy

Max Planck Institute for Astrophysics & Ludwig Maximilian University of Munich, Germany

Supervisors: Dr. Thorsten Naab, Prof. Dr. Volker Springel

Thesis: [The multi-phase interstellar medium in a high resolution simulation of a dwarf starburst](#)

Oct. 2016 –
July 2018

M.Sc. in Astrophysics, Astronomy and Mechanics (“Excellent”, Grade: 9.22/10.00) [90 ECTS]

National and Kapodistrian University of Athens, Greece

Supervisors: Dr. Kalliopi Dasyra, Prof. Despina Hatzidimitriou

Thesis: Study of the Kinematics and the Excitation of Molecular Gas in Radio-galaxy 4C12.50 using ALMA

Sep. 2011 –
Mar. 2016

B.Sc. in Physics (“Excellent”, Grade: 8.59/10.00) [240 ECTS]

Specialization in Astrophysics, Astronomy and Mechanics

National and Kapodistrian University of Athens, Greece

Honors: Academic Scholarship for Excellence Among Undergraduate Students, State Scholarships Foundation of Greece

Supervisor: Prof. Despina Hatzidimitriou

Thesis: Optical spectroscopic identification of AGN counterparts of X-ray sources in the M31 field

Sep. 2008 –
June 2011

High School Diploma (“Excellent”, Grade: 19.4/20.00)

Specialization in Natural Sciences

- 1st Place in the contest “Cassini Scientist for a Day”, *NASA Jet Propulsion Laboratory & National and Kapodistrian University of Athens, Faculty of Physics*, February 2011

- 2nd Place in Financial Essay Contest “The demographic problem in Greece and the economic growth”, *Athens Chamber of Commerce and Industry*, January 2011

- Annual Physics Workshop for High-Performing Students, *Hellenic Physical Society*, December 2009, Athens, Greece

- European Program “Euroscola”, *European Parliament*, November 2009, Strasbourg, France

- 14th Astronomy Summer School, *Hellenic Astronomical Society & National and Kapodistrian University of Athens, Faculty of Physics*, September 2009, Athens, Greece

Appointments

Dec. 2022 –
Apr. 2023

Postdoctoral Researcher, Computational Structure Formation (Group leader: Dr. Thorsten Naab)

Max Planck Institute for Astrophysics, Garching, Germany

Sep. 2018 –
Dec. 2022

Doctoral Researcher, Computational Structure Formation (Group leader: Dr. Thorsten Naab)

Max Planck Institute for Astrophysics, Garching, Germany

Publications

Fotopoulou, C. M., Dasyra, K. M., Combes, F., et al. 2019, A&A, 629, A30. [Complex molecular gas kinematics in the inner 5 kpc of 4C12.50 as seen by ALMA](#)

Bisbas, T. G., Walch, S., Naab, T., Lahén, N., Herrera-Camus, R., Steinwandel, U. P., **Fotopoulou, C. M.** et al. 2022, ApJ, 934, 115B. [The origin of the \[CII\]-deficit in a simulated dwarf galaxies starburst](#)

Fotopoulou, C. M., Naab, T., Lahén, N., et al. in prep. The GRIFFIN project - Extended starburst dwarf mergers

Fotopoulou, C. M., Naab, T., Lahén, N., et al. in prep. The GRIFFIN project - Cold clouds in a simulated dwarf starburst

Participation in Conferences

June 2022	From Stars to Galaxies II , Gothenburg, Sweden (<i>poster</i>)
July 2021	Ringberg Meeting 2021 , Ringberg Castle, Germany (<i>talk</i>)
July 2021	15th Hellenic Astronomical Conference , Patras (virtually), Greece (<i>talk</i>)
July 2017	13th Hellenic Astronomical Conference , Heraklion, Greece (<i>poster</i>)
July 2016	European Week of Astronomy and Space Science 2016 , Athens, Greece (<i>poster</i>)

Invited Talks

May 2023	University of Bristol , Bristol (virtually), UK
Feb. 2023	Newcastle University , Newcastle (virtually), UK
Feb. 2022	Center for Computational Astrophysics - Simons Foundation , New York, USA
Nov. 2021	Max Planck Institute for Astrophysics , Garching, Germany
Oct. 2021	Hellenic Astronomical Society , Athens (virtually), Greece
Dec. 2019	National and Kapodistrian University of Athens , Athens, Greece
Dec. 2019	University of Cologne , Cologne, Germany

Skills

Programming: Python, C, Matlab

Technical: Data Analysis, Data Visualization, LaTeX

Academic: Academic Writing, Presentation Skills, Teaching

Languages: Greek (Native), English & French (Excellent, C2-Certificates), German (Limited working proficiency)

Soft Skills: Public Outreach, Public Speaking, Social Media Outreach, Team-working

Workshops & Seminars Attended

July 2019	ATA-Advancing Theoretical Astrophysics Summer School July 15 - 26 2019, Amsterdam, Netherlands
May 2019	Python Programming Course The International Max Planck Research School on Astrophysics (IMPRS) at the Ludwig-Maximilians-University Munich May 6 - 10 2019, Garching, Germany
Mar. 2019	Bash Programming Course The International Max Planck Research School on Astrophysics (IMPRS) at the Ludwig-Maximilians-University Munich March 21 - 22 2019, Garching, Germany
Mar. 2019	Git Programming Course The International Max Planck Research School on Astrophysics (IMPRS) at the Ludwig-Maximilians-University Munich March 19 - 20 2019, Garching, Germany
Sep. 2017	IPP-Summer University for Plasma Physics and Fusion Research Max-Planck-Institut für Plasmaphysik September 11 - 15 2017, Garching, Germany
July 2016	The 2nd Summer School of the Hellenic Astronomical Society: “Nuclear activity in galaxies” Hellenic Astronomical Society July 11 - 15 2016, Athens, Greece
Apr. 2016	Introduction to Virtual Observatory Tools: Topcat, Aladin, VOSA, SIMBAD, VIZIER, SPLAT VO, VOSpec Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens April 1 - 8 2016, Athens, Greece

Experience & Volunteering

Sep. 2019 - present	Administrator of the Facebook group “Jobs for Astronomers” (6.2K members), an initiative to help Astrophysicists interested in academic (and non-academic) job postings
May 2019 - Dec. 2021	Principal Coordinator of the “Career Seminars” offered at the Max Planck Institute for Astrophysics, Garching
Mar. 2019 - Dec. 2019	Member of the planetarium team of the Max Planck Institute for Astrophysics, Garching
Sept. 2017	Participation in the “European Researchers’ Night”, organized by the Centre of Research and Technology HELLAS
Feb. 2017 – June 2017	Teaching assistant for Astrophysics Laboratory (4 th year Undergraduate) Department of Astrophysics, Astronomy and Mechanics, National and Kapodistrian University of Athens
Dec. 2016 - June 2017	Deputy Coordinator for Greece of the Scientific Essay Contest for students “Cassini Scientist for a Day 2016 – 2017”, organized by NASA, ESA & the National and Kapodistrian University of Athens
July 2016	Volunteer during EWASS2016 Conference, organized by the European Astronomical Society
Apr. 2016	Volunteer during the “Athens Science Festival” in Greece
Oct. 2015 – Aug. 2018	Member of the Education and Public Outreach Team “SpaceGates”, created by the Department of Astrophysics, Astronomy and Mechanics of the National and Kapodistrian University of Athens
Oct. 2015 – June 2016	Volunteer during the lectures and the observation nights for the public, organized by the Department of Astrophysics, Astronomy and Mechanics of the National and Kapodistrian University of Athens