

Constantina M. Fotopoulou

PhD Student

Max Planck Institute for Astrophysics
Karl-Schwarzschild-Strasse 1
85748, Garching, Germany

☎ (+49) 89 30000 2012

✉ constant@mpa-garching.mpg.de

🎓 [0000-0002-7035-0634](https://orcid.org/0000-0002-7035-0634)

📄 [scholar/citations/constantina_fotopoulou](https://scholar.citations/constantina_fotopoulou)

📖 [arXiv/a/fotopoulou_c_1](https://arxiv.org/a/fotopoulou_c_1)

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

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

📍 www.mpa.mpa-garching.mpg.de/~constant

Education

Sept. 2018 –
present

PhD Student

Max-Planck-Institut für Astrophysik & Ludwig-Maximilians-Universität München

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

Thesis: The emergence of a realistic multi-phase ISM and metal mixing in high-resolution galaxy simulations with feedback from individual stars and star clusters

Oct. 2016 –
July 2018

MSc in Astrophysics, Astronomy and Mechanics (“Excellent”, 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

BSc in Physics (“Excellent”, 8.59/10.00)

240 ECTS

Specialization in Astrophysics, Astronomy and Mechanics

National and Kapodistrian University of Athens, Greece

Honours: 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”, 19.4/20.00)

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

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

Participation in the European School Program “Euroscola” at the European Parliament, November 2009, Strasbourg, France

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, accepted for publication to *ApJ*. [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

Fotopoulou, C. M., Naab, T., Lahén, N., et al. in prep. The GRIFFIN project - Transition of cold clouds to star clusters in a simulated dwarf merger

Conferences

- June 2022 The GRIFFIN project: Cold clouds in a very high resolution simulated dwarf starburst. *From Stars to Galaxies II*, Gothenburg, 20 – 24 June 2022. (poster)
- July 2021 Cold clouds in a dwarf starburst. *Ringberg Meeting 2021*, Ringberg Castle, 28 – 31 July 2021. (talk)
- July 2021 Cold clouds in a very high resolution simulated dwarf starburst. 15th *Hellenic Astronomical Conference*, Patras (Virtually), 5 – 8 July 2021. (talk)
- July 2017 The X-ray AGN population behind the disk of M31. 13th *Hellenic Astronomical Conference*, Heraklion, 2 – 6 July 2017. (poster)
- July 2016 The X-ray AGN population behind the disk of M31. *European Week of Astronomy and Space Science 2016*, Athens, 4 – 8 July 2016. (poster)

Talks

- Feb. 2022 The GRIFFIN project: Cold clouds in a very high resolution simulated dwarf starburst. *Center for Computational Astrophysics - Simons Foundation*, New York, 25 February 2022. (invited talk)
- Nov. 2021 The GRIFFIN project: Cold clouds in a very high resolution simulated dwarf starburst. *Max Planck Institute for Astrophysics*, Garching, 8 November 2021. (talk)
- Oct. 2021 The GRIFFIN project: Cold clouds in a very high resolution simulated dwarf starburst. “*Hel.A.S. NextGen Seminar Series*” by the *Hellenic Astronomical Society*, Athens (virtually), 18 October 2021. (invited talk)
- Dec. 2019 Cold clouds in a simulated dwarf starburst. *National and Kapodistrian University of Athens*, Athens, 20 December 2019. (invited talk)
- Dec. 2019 Cold clouds in a simulated dwarf starburst. *University of Cologne*, Cologne, 3 December 2019. (invited talk)

Workshops & Seminars

- 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 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 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 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 titled: “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.

Skills

Programming: Python, C, Matlab

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

Soft Skills: Academic Writing, Presentation Skills, Public Speaking, Teaching

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 organiser 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 (4th 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