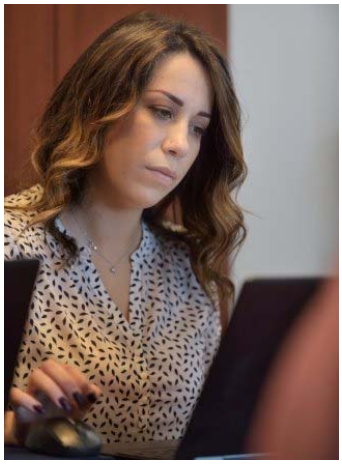

Anna Gialitaki graduated from the Physics Department of the University of Athens in 2016 and received her M.Sc. in the field of Applied Physics (Environmental Physics and Meteorology) from the same department in 2018. On 2017, she started working for the National Observatory of Athens (NOA), mainly on aerosol optical and microphysical property retrievals, with the use of active and passive remote sensing sensors, advanced retrieval algorithms and scattering codes. Apart from her work as a researcher, since December 2018, she also pursues her Ph.D. degree in atmospheric remote sensing with the Aristotle University of Thessaloniki. On November 2021, she started working as a research associate for the University of Leicester (UoL), on aerosol retrievals using multi-angle, multi-spectral polarimetric measurements.

Her main accomplishment is the development of a near-spherical shape model for reproducing the optical properties of stratospheric smoke aerosols (Gialitaki et al., 2020). She has also been involved in studies that include the use of experimental remote sensing data for the assessment of numerical model performance (Kampouri et al., 2021; Konsta et al., 2021; Varlas et al., 2021); the validation of satellite lidar measurements (Pauly et al., 2019; Proestakis et al., 2019); and the investigation of Sahara dust electrical activity (Daskolopoulou et al, 2021).

From 2018 to 2020 she acted as the main operator of the PollyXT lidar system of NOA, located at the PANhellenic GEophysical observatory of Antikythera (PANGEA). During this period, she was responsible for data acquisition, analysis and overall quality assurance of the system.

She has participated in 5 national and international research projects (i.e. C-MAP (UK Space Agency Centre for Earth Observation Instrumentation), NEWTON (ESA); PANACEA (2014-2020); she took part in 2 experimental field campaigns (the EARLINET COVID-19 NRT campaign (May 2020) and the first experimental campaign held in PANGEA observatory (September 2018) in the framework of the D-TECT (ERC) project); she has contributed to 10 publications in peer-reviewed journals (1 as first author; h-index: 4, source: Web of Science / Researcher ID: O-6757-2017) and over 40 publications in proceedings of international scientific conferences (10 as a first author) and she also serve as a peer reviewer for 2 scientific journals (Atmospheric Chemistry and Physics; Atmospheric Measurement Techniques).