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As head of the Observatory's Communication, Outreach and Education Office, Alba leads the creation and management of the global communication strategy, which encompasses corporate and executive communication, internal communication, crisis management, media relations, as well as outreach, science culture, and STEM education initiatives.

Alba holds a PhD in Physics, Excellent Cum Laude with International Doctoral Research Component. During her time as an astrophysics researcher in Spain (IFAE/UAB) and Italy (University of Padua/INFN), she completed research stays at Michigan Technological University, NASA's Goddard Space Flight Center, and the University of Maryland in the US, and at the Max Planck Institute for Nuclear Physics in Germany. Her thesis received the Special Award for Doctoral Studies from the Universitat Autònoma de Barcelona (UAB) and the Springer Theses Award. Additionally, she holds a Master's degree in Social Communication of Scientific Research, a field in which she supervises master's theses and professional internships.

Currently, Alba is a member of the Equity, Diversity and Inclusion (EDI) Advisory Committee of the European Astronomical Society (EAS).