

ANDRES ZULETA

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EDUCATION

M.Sc., Astrophysics (Ludwig-Maximilians-Universität, Munich) 2021 - 2024
Thesis: Kinematics of warped disks Advisors: Prof. Til Birnstiel & Prof. Richard Teague

B.Sc., Astronomy (Universidad de Chile, Santiago) 2017 - 2020

RESEARCH EXPERIENCE

Research Assistant, Universitäts-Sternwarte München Jan. 2023 - Jun. 2023
Supervisor: Prof. Til Birnstiel *Munich, Germany*

Intern, Universitäts-Sternwarte München Oct. 2021 - Mar. 2024
Supervisor: Prof. Til Birnstiel *Munich, Germany*

Technical Assistant, Universidad de Chile Mar. 2021 - May. 2021
Supervisor: Prof. Simon Casassus *Santiago, Chile*

Intern, Universidad de Chile Mar. 2020 - Mar. 2021
Supervisor: Prof. Simon Casassus *Santiago, Chile*

Intern, Universidad de Chile Jan. 2020 - Feb. 2020
Supervisor: Prof. Diego Mardones *Santiago, Chile*

FURTHER EDUCATION

Asteroid Research Training Workshop 2023 Tartu, Estonia

Hands-on Numerical Astrophysics School for Planet Formation Sciences 2023 Raunberg, Germany

VLT Interferometry School 2023 Budapest, Hungary

Data Science with Python 2022 Online

Sagan Exoplanet Summer Workshop 2021 Online

ESCAPE Summer School on Data Science for Astronomy 2021 Online

PUBLICATIONS

First Author

- Zuleta, A.**, Birnstiel T., Teague R., in preparation
Topic: Modeling warped disks in RADMC3D and extending *eddy* with a ray-casting method to fit warped disk geometries, to determine whether observations can distinguish warped disks from radial flows.

Co-Authored

- Garg, H., et al. (incl. **Zuleta, A.**), 2021. [MNRAS, 504, 1](#)
Non-Keplerian spirals, a gas-pressure dust trap and an eccentric gas cavity in the circumbinary disc around HD 142527

SEMINAR AND POSTER

- Poster, SPP1992 Summer School (Raunberg, Germany) Aug. 2023
- Seminar, Universitäts-Sternwarte München (Munich, Germany) Jan. 2023

SKILLS

Programming: Python

Analysis and Modelling software: CASA, difmap, RADMC3D

Operating Systems: Windows, Linux, Mac

Languages: Spanish (native), English (C1)

Version Control: GitHub