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Pushing the characterization of exoplanet atmospheres down to temperate rocky planets in the era of JWST

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Citation

Zieba, S. (2024, June 25). *Pushing the characterization of exoplanet atmospheres down to temperate rocky planets in the era of JWST*. Retrieved from <https://hdl.handle.net/1887/3765836>

Version: Publisher's Version

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Note: To cite this publication please use the final published version (if applicable).

Pushing the Characterization of Exoplanet Atmospheres Down to Temperate Rocky Planets in the Era of JWST

1. JWST's capabilities will facilitate the exploration of rocky exoplanet atmospheres and their surface compositions, giving us a first idea of the geological history of these rocky worlds.
(Chapter 4)
2. Trusting the final planetary spectrum hinges on a deep understanding of both the telescope and the host star. For the interpretation of the spectrum, you have to believe your modelers.
(Chapters 2, 3, 4, 5, and 6)
3. Sharing your code with the community to ensure the reproducibility and transparency of your results is undeniably essential.
(Chapters 3, 5)
4. When publishing a paper involving a model being fit to observations, one should always show corner plots.
(Chapters 2, 5)
5. Engaging in the reanalysis of data from high-impact papers using updated pipelines or analysis techniques is a worthwhile endeavor.
6. When utilizing archival data, it is a basic courtesy to contact the principal investigator of the program, even if the data is publicly accessible.
7. When communicating your science with an audience outside your field, in particular the media, choose your words wisely to prevent miscommunication.
8. Organizing your files in a well-thought-out directory structure on your machine holds greater significance than you might realize initially.
9. Back up your data more than once.
10. Attending conferences in person and working from the office offers valuable opportunities for fostering collaborations and friendships that are harder to achieve virtually or while working from home.
11. Doing your PhD in your twenties will make you feel happy, free, confused, and lonely at the same time.
12. For a true Viennese Schnitzel experience, remember to skip the ketchup and opt for the classic veal recipe.