Zotero Tutorial: LaTeX Examples

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With Better BibTeX and Zutilo, we can obtain the correct `.bib` entries, `\cite{...}` command, and the formatted citation from simple shortcuts.

For example, I could cite these entries about the tears of wine [Duk+20; Phy19]. The first is a journal article and the second is a video. If one wants to share this paper with collaborator via email say, then it would be convenient to be able to obtain a formatted citation quickly. And this is possible as well:

> Dukler, Y., Ji, H., Falcon, C., Bertozzi, A.L., 2020. Theory for undercompressive shocks in tears of wine. Physical Review Fluids 5, 34002. https://doi.org/10.1103/PhysRevFluids.5.034002

Our "pipeline" preserves special characters. For example, the ö in the title of this paper is printed in the References section correctly [Van21]; as well as the accents in the author names of this paper [Cas+21].

Let's cite some things others than journal articles. This is conference paper [Dia14], this is a book chapter [Büh14a] from the book [Büh14b], and this is a patent [TJG18]. Here we cite the thesis and a presentation by the same author [Sha15; Sha21]. The citation for the presentation could be better. This is likely because presentation is categorized as `@misc` in the `.bib` file.

Automation is great, but we should still be careful about the details. For example, this data is not cited well [SS20]. The recommended citation for this data product is:

> European Centre for Medium-Range Weather Forecasts (2019): ERA5 Reanalysis (0.25 Degree Latitude-Longitude Grid). Research Data Archive at the National Center for Atmospheric Research, Computational and Information Systems Laboratory. Dataset. https://doi.org/10.5065/BH6N-5N20. Accessed† dd mmm yyyy.

References

[Büh14a] "Elements of Fluid Dynamics". In: *Waves and Mean Flows*. Ed. by Oliver Bühler. Second. Cambridge Monographs on Mechanics. Cambridge: Cambridge University Press, 2014, pp. 3–21. ISBN: 978-1-107-66966-6. DOI: 10.1017/CBO9781107478701.002.

[Büh14b] Oliver Bühler. *Waves and Mean Flows*. Second. Cambridge Monographs on Mechanics. Cambridge: Cambridge University Press, 2014. ISBN: 978-1-107-66966-6. DOI: 10.1017/CBO9781107478701.

[Cas+21] Zoé Caspar-Cohen et al. "Characterization of Internal Tide Non-Stationarity : Eulerian versus Lagrangian Perspectives". Preprint. Mar. 2021. DOI: 10.1002/essoar.10506946.1.

[Dia14] Michail Diamantakis. "The Semi-Lagrangian Technique in Atmospheric Modelling: Current Status and Future Challenges". In: *Seminar on Recent Developments in Numerical Methods for Atmosphere and Ocean Modelling, 2-5 September 2013*. Shinfield Park, Reading: ECMWF, 2014, pp. 183–200.

[Duk+20] Yonatan Dukler et al. "Theory for Undercompressive Shocks in Tears of Wine". In: *Physical Review Fluids* 5.3 (Mar. 2020), p. 34002. ISSN: 2469990X. DOI: 10.1103/PhysRevFluids.5.034002.

[Phy19] Physics Girl. *Most People Don't Know Wine Moves Like This — EVERYDAY MYSTERY*. Oct. 2019.

[Sha15] Callum Shakespeare. "On the Generation of Waves during Frontogenesis". Thesis. University of Cambridge, June 2015. DOI: 10.17863/CAM.16142.

[Sha21] Callum J. Shakespeare. *Lagrangian Filtering: A Novel Method for Separating Internal Waves from Non-Wave Flows in High-Resolution Simulations*. May 2021.

[SS20] David P. Stepaniak and Chi-Fan Shih. *ERA5 Modes of Interannual Variability*. Boulder CO, 2020.

[TJG18] Joseph M. TERAN, Chenfanfu JIANG, and Theodore F. GAST. "Computerized Rendering of Objects Having Anisotropic Elastoplasticity for Codimensional Frictional Contact". WO2018213607A1. Nov. 2018.

[Van21] Jacques Vanneste. "Vortex Dynamics on a Möbius Strip". In: *Journal of Fluid Mechanics* 923 (Sept. 2021). ISSN: 0022-1120, 1469-7645. DOI: 10.1017/jfm.2021.581.