
academic-ads-bibtex

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INTRODUCTION

The [Hugo Academic admin tool](#) allows for the ingestion of BibTeX records to add to the publication list. One easy solution is to use the [NASA ADS](#) to retrieve such records from a [NASA ADS Library](#). However, such records often contain LaTeX `\newcommand`. For example:

```
@ARTICLE{2016ApJS..226....5L,
  author = {{Ly}, C. and {Malhotra}, S. and {Malkan}, M.~A. and {Rigby}, J.~R. and
    {Kashikawa}, N. and {de los Reyes}, M.~A. and {Rhoads}, J.~E.
  },
  title = "{The Metal Abundances across Cosmic Time (MACT) Survey. I. Optical_
↪Spectroscopy in the Subaru Deep Field}",
  journal = {\apjs},
  archivePrefix = "arXiv",
  eprint = {1602.01089},
  keywords = {galaxies: abundances, galaxies: distances and redshifts, galaxies:_
↪evolution, galaxies: ISM, galaxies: photometry, galaxies: star formation},
  year = 2016,
  month = sep,
  volume = 226,
  eid = {5},
  pages = {5},
  doi = {10.3847/0067-0049/226/1/5},
  adsurl = {https://ui.adsabs.harvard.edu/abs/2016ApJS..226....5L},
  adsnote = {Provided by the SAO/NASA Astrophysics Data System}
}
```

Here, the journal name is simplified to `\apjs`. This ends up propagating into Hugo Academic sites. To fix this, this simple pure Python script will convert such aliases into the full journal names. It uses a journal database to conduct the replacement.

INSTALLATION

There are two ways to get the code:

1. From [PyPi](#)
2. From [source](#)

But first, we recommend creating a separate (virtual) environment to avoid any possible conflicts with existing software that you used. Instructions are provided for `conda` and `virtualenv`.

2.1 From PyPi

Using `conda`:

```
(base) $ (sudo) conda create -n bibtex python=3.7
(base) $ conda activate bibtex
(bibtex) $ (sudo) pip install academic-ads-bibtex
```

Using `virtualenv`:

```
(base) $ (sudo) conda install virtualenv # if not installed
(base) $ mkdir academic-ads-bibtex
(base) $ cd academic-ads-bibtex
(base) $ virtualenv venv
(base) $ source venv/bin/activate
(venv) $ pip install academic-ads-bibtex
```

2.2 From Source

Using `conda`:

```
(base) $ (sudo) conda create -n bibtex python=3.7
(base) $ conda activate bibtex
(bibtex) $ git clone https://github.com/astrochun/academic-ads-bibtex.git
(bibtex) $ cd academic-ads-bibtex
(bibtex) $ (sudo) python setup.py install
```

Using `virtualenv`:

```
(base) $ (sudo) conda install virtualenv # if not installed
(base) $ git clone https://github.com/astrochun/academic-ads-bibtex.git
(base) $ cd academic-ads-bibtex
(base) $ virtualenv venv
(base) $ source venv/bin/activate
(venv) $ python setup.py install
```

EXAMPLES

The primary script to execute is `academic_ads_bibtex`. The above installation will include this executable in your python environment paths.

Execution requires only one argument, which is the full path to the BibTeX file. It can be provided with the `-f` or `--filename` command-line flag.

```
$ academic_ads_bibtex -f /full/path/to/my_pubs.bbl
```

By default:

1. The code uses the repository-based journal database, `bibtex_journals.db`. This can be changed by specifying the `-d` or `--db_filename` command-line flag.
2. The revised BibTeX file will be based on the input `filename` with the prefix changed to include `_revised`. For example, for the above case, the output file will be `/full/path/to/my_pubs_revised.bbl`. This can be changed by specifying the `-o` or `--out_filename` command-line flag.

A log file is constructed: `/full/path/to/academic_ads_bibtex.YYYY-MM-DD.log`

LICENSE

This project is licensed under the [GNU GPLv3 License](#). See the [LICENSE](#) file for details.

API DOCUMENTATION

5.1 The Converter class

class `academic_ads_bibtex.converter.Convert` (*filename*, *db_filename*, *out_filename*,
log=None)

Bases: `object`

Main class to perform BibTeX conversion for Academic compatibility

Parameters

- **filename** – str or `pathlib.Path` object
- **db_filename** – str or `pathlib.Path` object
- **out_filename** – str or `pathlib.Path` object
- **log** – `LogClass` or logger object

Variables

- **bibtex_content** – str (from `import_file`)
- **db_dict** – dict of journal database (from `import_database`)
- **bibtex_revised** – str (from `replace`)

import_file() Import BibTeX file

import_database() Import journal database file

replace() Replace journal abbreviations

write_file() Write revised BibTeX file

import_database()

Import journal database file

import_file()

Import BibTeX file

replace()

Replace journal abbreviations

write_file()

Write revised BibTeX file

5.2 The LogClass class

class academic_ads_bibtex.logger.LogClass(*logfile*)

Bases: object

Main class to log information to stdout and ASCII logfile.

Note: This code is identical to the one used in: https://github.com/ualibraries/LD_Cool_P

Note: Logging level is set for DEBUG for file and INFO for stdout

To use: log = LogClass(logfile).get_logger()

Parameters logfile – str or pathlib.Path object for logging file

get_logger()

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