

A Harvard style for use with LaTeX (using natbib) – Example

We do not currently have any LaTeX style files for the Imperial College referencing formats. The following is an example of a Harvard style output which uses the natbib package. Natbib allows more flexibility in citation format and the specified bibliography style allows the inclusion of URLs for electronic resources (url= field).

- To invoke the natbib package add `\usepackage{natbib}` to the preamble
- To insert a citation use the `\cite` command or its variations (see table below)
- To achieve a Harvard style output use the `\bibliographystyle{agsm}` command

Note: Further information can be found in the **Citing and referencing in LaTeX - Using BibTeX** guide.

The following website also provides much useful information:

http://en.wikibooks.org/wiki/LaTeX/Bibliography_Management

Original document:

The diagram illustrates the LaTeX code for a Harvard-style document, with callouts explaining key commands:

- invokes the use of natbib**: Points to the `\usepackage{natbib}` command in the preamble.
- \citep command inserts author name(s) and year in brackets**: Points to the `\citep[p.~215]{RefWorks:1248}` command in the text.
- command to use the agsm style file (a Harvard style)**: Points to the `\bibliographystyle{agsm}` command in the preamble.
- \cite command inserts author name(s) in text with year in brackets**: Points to the `\cite{RefWorks:1246}` command in the text.
- command to create bibliography using the named .bib file for the data**: Points to the `\bibliography{EVRWedit}` command in the preamble.

The LaTeX code shown is as follows:

```
\documentclass{article}
\usepackage{amsmath}
\usepackage{amssymb}
\usepackage{graphicx}
\usepackage{natbib}
\begin{document}

`Airplanes are by no means the only application of aerodynamics' \citep[p.~215]{RefWorks:1248}. The air flow over an automobile, the gas
flow through the internal combustion engine powering an automobile, weather and storm prediction \citep{RefWorks:1248,RefWorks:1247},
the flow through a windmill, the production of thrust by gas turbine jet engines and rocket engines as stated by \cite{RefWorks:1246}, and
the movement of air through built-up structures are just a few other examples of the application of aerodynamics
\citep*{RefWorks:1249}.

\bibliographystyle{agsm}
\bibliography{EVRWedit}
\end{document}
```

Natbib citation commands

Command	Action	Result
<code>\cite{1145}</code>	Author(s) in text, publication year in brackets; et al. used for more than two authors	Johnson et al. (2015)
<code>\cite*{1145}</code>	Author(s) in text, publication year in brackets; all authors included	Johnson, Smith & Roberts (2015)
<code>\citep{1145}</code>	Author(s) and publication year in brackets; et al. used for more than two authors	(Johnson et al. 2015)
<code>\citep*{1145}</code>	Author(s) and publication year in brackets; all authors included	(Johnson, Smith & Roberts 2015)
<code>\citep{1145,1150}</code>	Multiple citations appear	(Johnson et al. 2015, Morant et al. 2010)
<code>\citep[p.~22]{1145}</code>	Allows page number to be inserted (used for direct quotes)	(Johnson et al. 2015, p. 22)

Phototypeset document:

‘Airplanes are by no means the only application of aerodynamics’ (Davids & Mani 1972, p. 215). The air flow over an automobile, the gas flow through the internal combustion engine powering an automobile, weather and storm prediction (Davids & Mani 1972, Dechamps et al. 2013), the flow through a windmill, the production of thrust by gas turbine jet engines and rocket engines as stated by Lin & Ebadian (1997), and the movement of air through building heater and air-conditioning systems are just a few other examples of the application of aerodynamics (Birgersson, Finnveden & Robert 2004).

References

- Birgersson, F., Finnveden, S. & Robert, G. (2004), ‘Modelling turbulence-induced vibration of pipes with a spectral finite element method’, *Journal of Sound and Vibration* **278**(4-5), 749–72.
URL: <http://dx.doi.org/10.1016/j.jsv.2003.10.024>
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URL: [http://dx.doi.org/10.1016/0010-4825\(72\)90018-2](http://dx.doi.org/10.1016/0010-4825(72)90018-2)
- Dechamps, X., Degrez, G., Rasquin, M. & Jansen, K. E. (2013), Study of incompressible MHD flow in a circular pipe with transverse magnetic field using a spectral/finite element solver, in ‘44th AIAA Plasmadynamics and Lasers Conference’, Univ. Libre de Bruxelles, Brussels, Belgium, American Institute of Aeronautics and Astronautics, Reston, VA, USA, p. 13 pp.
- Lin, C. X. & Ebadian, M. A. (1997), ‘Developing turbulent convective heat transfer in helical pipes’, *International Journal of Heat and Mass Transfer* **40**(16), 3861–3873.
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