# **TUTORIAL**

# LaTeX tutorial for the creation of academic-standard CVs or résumés

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This work and the associated files articleCV.cls and CVexample.tex exist under the terms of the LTEX Project Public

# 1 Get Started

Begin by following the instructions located in the GitHub repository at https://github.com/Pedro-h-mattos/LaTeXCVTemplate, to:

- Install a T<sub>F</sub>X distribution
- · Download a copy of this projects' files onto your local device
- Compile CVexample.tex to produce a PDF output

Those instructions are repeated here in more detail.

#### 1.1 Installation

Information about downloading the appropriate software can be found by following the link: https://www.latex-project.org/get/.

#### Step 1.

Install an appropriate TeX distribution.

A TeX distribution, such as MikTeX, TeXLive or MacTeX, is a necessary prerequisite for compiling TeX files. These are free and easily available for download online.

#### Step 2.

Install and configure your preferred text editor (e.g. TeXStudio or TeXWorks)

TeX files can be written using any editor and then compiled via the system shell. However for ease-of-use, it is recommended to install a dedicated platform for working with TeX files.

Other code-editors (e.g. VScode) can be suitable, but may require configuration by installing some extensions.

#### Step 3.

Alternatively, register an account at https://www.overleaf.com/

Overleaf is a cloud-based LaTeX editor which doesn't require any local installation. Integrated project sharing, bibliography management and templates make Overleaf popular with beginners. Although, some features are limited to premium users.

#### 1.2 Download from GitHub

#### Step 4.

Return to the GitHub repository, https://github.com/Pedro-h-mattos/LaTeXCVTemplate

After installing the necessary software, download the project files from the GitHub repository onto your local filesystem.

#### Step 5.

Download the repository by selecting <> Code and then Download ZIP

You can download the entire repository as a .zip file or install the files individually by clicking on its name and then **Download raw file**.

#### Step 6.

Unpackage the zip file into an appropriately-named folder (e.g. 'myresume')

#### 1.3 Your First Document

Compiling your document now is a good test to see if your software was correctly installed. You can compile source code in the terminal interface with the command pdflatex <filename>.

However, it is generally easier to compile from within a TeX editor.

#### Step 7.

Rename the source file from CVexample.tex to YourName\_Position\_CV.tex

This will be the name of your compiled PDF document.

# Step 8.

Open the source file CVexample.tex within your preferred text editor

# Step 9.

Compile your document using the pdfLaTeX option

Take a moment to examine the output PDF document.

CVexample.tex is designed as a customisable template. The rest of the guide will help you fill it out, step-by-step.

# 2 Editing TeX Files

```
Step 10.

Return to your source document \CVexample.tex
```

The class declaration, \documentclass{articleCV}, is analogous to loading a template for the document, which describes configuration and style settings.

\begin{document} and \end{document} contain the body of the document, including all the text that is output when the document is compiled.

#### 2.1 Title Header

#### Step 11.

Locate the title header within the source document

The following code constructs the title header:

```
\begin{centering}
    {\Huge John Smith \par}
    \vspace{0.5\baselineskip}
    132 My Street, London, England \par
    \vspace{0.5\baselineskip}
    E-mail: smithj@outlook.com \quad Telephone: (+00) 000-0000-0000 \par
    \end{centering}
    \vspace{\baselineskip}
```

We're only concerned with the text output of our document, so we will ignore special characters e.g.  $\{\}$  or commands (prepended by  $\setminus$ ).

#### Step 12.

Replace the name, address, email and telephone number with your own information

Then, recompile CVexample.tex and observe the changes made to your document.

Now, let's consider how the header is formatted.

- \begin{centering} and \end{centering} center the header on the page
- \Huge makes the font size huge
- \vspace{0.5\baselineskip} adds extra spacing between lines, denoted by \par
- Similarly, \quad adds horizontal space between elements on the same line

Enclosing {\Huge John Smith \par} in curly braces prevents the style elements from overlapping onto other lines.

## 2.2 Qualifications

#### Step 13.

Locate the first section header \section{Qualifications}, within the source document

The source document contains three sections, Qualifications, Experience and Skills.

#### Step 14.

Describe a recent qualification by rewriting each argument #1-4 given to the first \tab command

The \tab command creates a subheading, which is a page-width table with two columns and two rows, that are justified to either margin. Text on the first line is **boldface** and on the second is *smaller*, *italicized* and *sans-serif*.

Cells are given as inputs (#1-4), which can be null. For example:

```
\tab
{Bachelor's of Science in Biochemistry}{2022--2026} % #1 and #2
{Queen Mary University of London}{London, England} % #3 and #4
```

Outputs:

#### **BSc Biochemistry**

2022 - 2026

Queen Mary University of London

London, England

Pretty snazzy, eh?

#### Step 15.

Next, add a bullet point underneath your first subheading

```
\begin{itemize}
  \item
\end{itemize}
```

The environment created by \begin{itemize} and \end{itemize} creates a bulleted list and the command \item, followed by plain text, creates a bullet-point.

Putting it all together, the following code:

Creates the subheading:

#### **BSc Biochemistry**

2022-2026

Queen Mary University of London

London, England

• Genes and Bioinformatics, Cell Biology and Development, Fundamentals of Organic Chemistry

#### Step 16.

Repeat the previous steps to describe another qualification

# 2.3 Work Experience

#### Step 17.

Describe a recent position of employment, using the \tab command and bullet point(s)

Repeat the construction of a subheading, as before, to fill out your CV. Besides a formal work history, you may also choose to describe your internships, volunteer experience or personal projects.

### 2.4 Technical Skills

Consider another example subheading, with a slightly different style:

#### Language Proficiencies

• English (native fluency), Spanish (working proficiency), Mandarin (conversational)

With only one argument it is better to use the command \textbf{}, than \tab, which would otherwise result in a too-large linebreak.

#### Step 18.

List the remainder your skill(s) using \tab or \textbf and bullet points

Finally, save your changes and then recompile CVexample.tex.