Your Paper

You

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Abstract

Your abstract.

1 Introduction

Your introduction goes here!

2 Some examples to get started

2.1 How to add Comments

Everything on a line after a % sign is a comment:

2.2 How to include Figures

First you have to upload the image file from your computer using the upload link the project menu in Overleaf. Then use the "includegraphics" command to include it in your document. Use the figure environment and the caption command to add a number and a caption to your figure. Use the "ref" command to cite the figure number in the text of your article. See the code for Figure 1 in this section for an example.

2.3 How to add Tables

Use the table and tabular commands for basic tables — see Table 1, for example.

2.4 How to write Mathematics

LaTeX is great at typesetting mathematics. Let $X_1, X_2, \ldots, X_n$ be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n}\sum_{i}^{n} X_i$$

Figure 1: This frog was uploaded via the project menu.

Item	Quantity
Widgets	42
Gadgets	13

Table 1: An example table.

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

Similarly, you can right multiline equations using the "align" environment:

$$\begin{aligned} 5 \cdot (3 + 2) &= 5 \cdot 3 + 5 \cdot 2 \\ &= 15 + 10 \\ &= 25 \end{aligned}$$

2.5 How to add Citations and a References List

To add a reference, put the bibliography information into a "bibitem" in the bibliography section. To cite it, use the "cite" Latex command.

Example:

In 1947, Artin gave a presentation for the braid group in terms of generators and relations [1].

References

[1] E. Artin, *The theory of braids*, Ann. of Math. (2) **48** (1947),

[2] B. Bakalov and A. Kirillov, Jr., *Lectures on Tensor Categories and Modular Functors*, University Lecture Series, vol. **21**, Amer. Math. Soc., 2001.

[3] J. Barrett and B. Westbury. *Invariants of Piecewise-Linear 3-Manifolds*, Trans. Amer. Math. Soc. **348** (1996), 3997–4022.