

Paper Template for Writing with Victor

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Abstract

Your abstract here

1 Introduction

This is a short document illustrating the hodgepodge of latex commands and style files that Victor uses to write papers. The main things are:

1. Use human-readable macros in latex math.

Good: `\EE[Y \given X]`

Bad: `\mathbb{E}[Y | X]`

2. Use margin commenting commands (the included ones are due to Daniel M. Roy) to avoid breaking flow of the text w/ comments.
3. Finished documents should be beautiful.

The most common option for commenting is margin commenting.⁽¹⁾ It's also sometimes useful to highly text that `\vv` needs attention. Severe issues can be **(!!) flagged as problems**. (1) vv: like this

2 Further comments

When citing multiple references at once use only a single cite command [**Richardson:Hudgens:Gilbert:Fine:2014; Liu:Kuramoto:Stuart:2013**]. When using a citation as a noun, as in "According to **Rosenbaum:2010**, ...", use `citet`.

In many venues, its common for proofs of theorems to appear only in an appendix. Using the `restatable` package makes this much easier. For example:

Theorem 1. *Assume that the moon is made of cheese. Then, the moon is tasty with crackers, for all crackers that are non-stale.*

The way I handle bibliographies is incompatible with `natbib`. Accordingly, when modifying this template to work with ML conference templates (e.g., NeurIPS or ICML), use their `nonatbib` option.

3 Writing Advice

We now transition from latex formatting to some free-form writing and style advice. My intention is to eventually significantly update this.

Writing is *extremely important*. The impact of your paper is limited by the ability of your audience to understand it. Your typical reader will be a non-expert with limited attention. Work hard to make your paper accessible and beautiful! For your first papers, the writing may take about as long as the actual research. Neglecting writing quality is the most common failure mode I see among new researchers.

1. A good first step for writing is to sketch the full paper in bullet points. Make sure the story is totally clear to you. Explain your paper to a couple of friends to nail down the flow. A partial template for bullet point writing: <https://docs.google.com/document/d/1KORmM9VsxY29ssod77e0zfKVIBLSesmauSYD5UyfDo4/edit?usp=sharing>
2. Some useful links:
 - (a) Writing advice from Don Knuth: https://jmlr.csail.mit.edu/reviewing-papers/knuth_mathematical_writing.pdf. I strongly recommend at least reading the first 10 pages.
 - (b) This tool for identifying overly complex or hard-to-understand sentences: <https://hemingwayapp.com/>
 - (c) This transformer-based rewriting tool: <https://www.wordtune.com/>
3. Start writing early! Anticipate needing several full revisions of the paper. These often include large changes. For instance, throwing away entire sections, or adding new experiments. It's easy to miss deadlines, or to end up submitting subpar versions of your paper.

A Proofs

Recall that [Theorem 1](#) is provided to illustrate the use of restatable.

Theorem 1. *Assume that the moon is made of cheese. Then, the moon is tasty with crackers, for all crackers that are non-stale.*

Proof. This is straightforward from well-known results of Wallace and Gromit. (!!) missing citation □