Research Paper Template

Your Name

Table of contents

1 Abstract

Background:
Brief statement of the problem.

Methods:
What you did, very succinctly.

Findings:
Major results (1–3 key outcomes).

Interpretation:
Why it matters.

Funding: (optional)

2 Introduction

2.1 Background

Introduce the scientific/clinical context and importance. For example, previous research has established foundational concepts in this field (Smith and Doe 2022).

2.2 Knowledge Gap

What is unknown or unresolved in prior work. As noted by Smith and Doe (2022), several questions remain unanswered.

2.3 Objectives

- Objective 1
- Objective 2
- Objective 3

2.4 Overview of the Paper

Briefly describe how the rest of the paper is organized.

3 Methods

3.1 Study Cohorts / Data Sources

Describe the datasets, inclusion/exclusion criteria, and preprocessing.

3.2 Experimental / Computational Workflow

Outline the pipeline and main steps.

3.3 Models / Algorithms

Describe models, training procedures, hyperparameter tuning, and evaluation. We followed established protocols (Smith and Doe 2022).

3.4 Statistical Analysis

Detail metrics, tests, corrections, and significance thresholds.

3.5 Ethics (if applicable)

IRB approval, consent, and data governance.

4 Results

4.1 1. Cohort / Dataset Overview

High-level description of samples and data characteristics. Reference Table **?@tbl-cohort**.

```
| Group        | N   | Key features |
|--------------|-----|--------------|
| Group A      | 100 | ...          |
| Group B      | 120 | ...          |
```

4.2 2. Primary Findings

Present your main results, linking to figures and tables.

For example, as shown in Figure 1, we observe clear separation between groups.

4.3 3. Secondary Analyses

Robustness checks, ablation studies, subgroup analyses.

4.4 4. Sensitivity Analyses (optional)

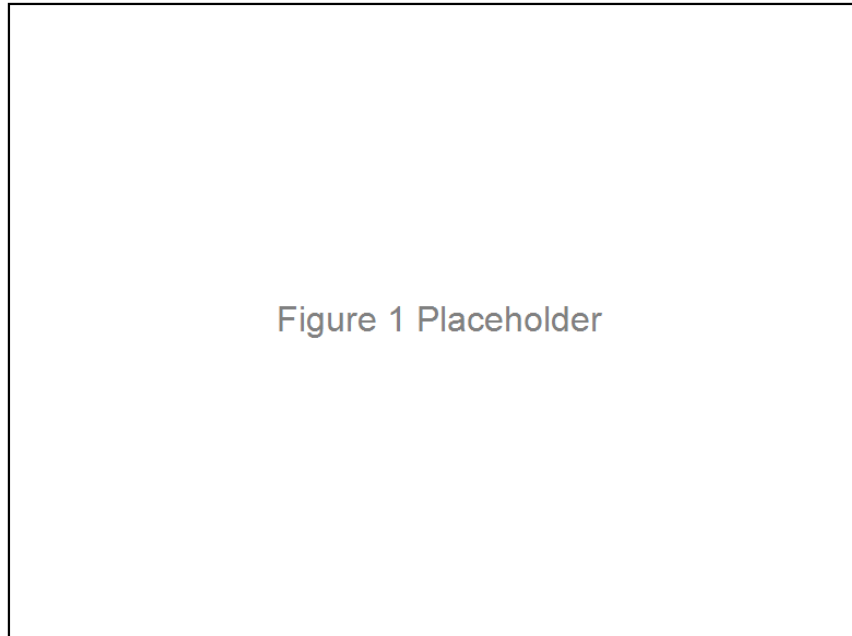Alternative models, parameter sweeps, or additional tests.

Figure 1: Example placeholder figure caption

5 Discussion

5.1 Summary of Main Findings

Recap the key results in plain language.

5.2 Comparison With Prior Work

How do your findings agree or conflict with existing literature? Our results are consistent with those reported by Smith and Doe (2022), who also observed similar patterns.

5.3 Biological / Clinical / Practical Implications

What do the results mean in practice?

5.4 Strengths

- Strength 1
- Strength 2
- Strength 3

5.5 Limitations

Be transparent about limitations and potential biases.

5.6 Future Directions

Follow-up studies, applications, or method improvements.

6 Conclusion

Concise paragraph highlighting the key takeaway and impact of the work.

7 Acknowledgements

Recognize collaborators, laboratories, and funding sources.

8 References

References will be generated automatically from `bibliography.bib`.

Smith, John, and Jane Doe. 2022. "An Example Study for a Research Paper Template." *Journal of Illustrative Examples* 10 (1): 1–10.