

Research Stay Plan and Timeline

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1 Research Stay Overview

Host institution: UBC

Supervisors: Prof. Elizabeth Wolkovich and PhD Victor Van de Meersch

Goal: First draft of a joint paper on Masting at Mt. Rainier National Park

Duration: January – March 2026

General objective:

The objectives of this research stay are to : 1) Developp a model to measure synchrony of seed production at the species and stand level at Mt. Rainier National Park and 2) Developp a manuscript or a first draft for publication.

2 Scientific Goals

G1: Implement a Bayesian model to quantify interspecific synchrony in seed production.

G2: Quantify intraspecific synchrony across sites.

G3: Evaluate temporal synchrony of total seed availability from a seed predator perspective.

G4: Validate models, perform sensitivity analyses, and prepare figures for publication.

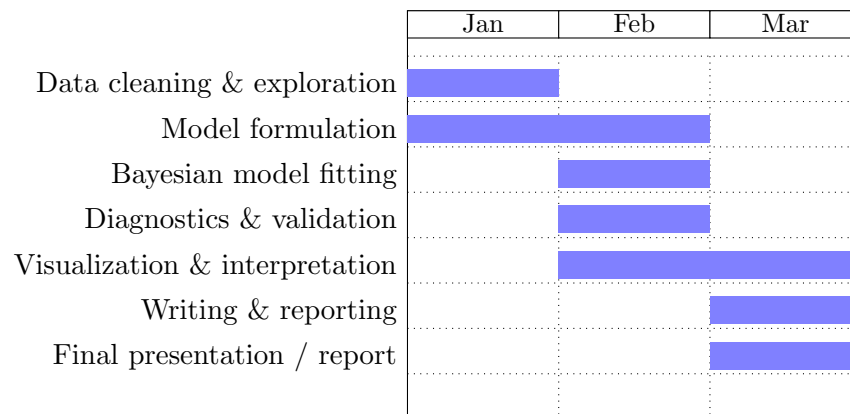
3 Expected Output

- Cleaned dataset
- Bayesian model code using Stan
- Summary figures and tables
- Draft manuscript

4 Potential Weekly Planning

Week	Main Activities
Week 1–2	Data cleaning?, getting familiar with STAN, exploratory analysis, maybe with Victor’s model?
Week 3–4	Model specification and prior testing + Lab retreat (potentially working already on the manuscript; Method and overall sections)
Week 5–6	Model fitting and diagnostics
Week 7–8	Interpretation and visualization
Week 9–10	Writing and synthesis
Week 11–After	Wrapping up and more writing

5 Timeline (Gantt Chart)



6 Notes

Add risks, dependencies, meetings, or buffer time here.