

## E<sup>2</sup>M<sup>2</sup>: Final Research Plan

**Due on Monday, March 18 at midnight**

Prepare **FOUR** Powerpoint slides that you will share in a **three-minute oral presentation** to the class and other MBC guests on the morning on Tuesday, March 19. All slides must be in English. The slides will be submitted to the AirTable link on the website using the following naming convention: E2M2-2024-FinalHW-Slides-LastName-FirstName.pdf

*Feel free to complete this assignment on any research topic of your choosing, either the topic that you have been developing all week, or a completely new system if you like.*

1. Slide 1 has:
  - a. The background to introduce your problem (1 sentence)
  - b. The question your statistical model will answer (1 sentence)
  - c. The question your dynamical model will answer (1 sentence)
  - d. Acknowledgements of **three other E2M2 who reviewed your work** (see details below)
2. Slide 2 has:
  - a. Your statistical question
  - b. The R function, response and predictor variables, and distribution + link function for the statistical model.
  - c. The hypothesized outcome.
  - d. A graphical representation of your plan for data collection or analysis and/or a brief summary of the data you will use.
3. Slide 3 has:
  - a. Your dynamical model question
  - b. Your dynamical model diagram, with all states and processes defined. This will be an edited extension of the first half of the assignment you brought to the “Model Telephone” activity on Friday.
4. Slide 4 has:
  - a. Up to three next steps that will help answer your questions.

To help you prepare for presentations, please complete the following tasks on your own time:

- a. Please meet with **two other E<sup>2</sup>M<sup>2</sup> students** to receive a critique of your statistical and dynamical framework before completing the slides.
- b. Once slides are completed, please give your **full-length three minute oral presentation** in practice to **one other E<sup>2</sup>M<sup>2</sup> student**. This must be timed!

Please acknowledge any partners who critiqued your original work or reviewed your presentation somewhere on your first slide.

**Please submit your completed slides to the online portal by **midnight on Monday, March 18, 2024.****