Khai Shen Chng

90328958

MATH435 Project Report

Our project focused on patching 2 SEIR models together to analyze how the rate of migration may affect the spread of infection between 2 countries. We introduced the project in the first section by providing a brief overview along with mentioning our motives and previous works which correspond to ours. Then, under our Methods section, we constructed the model and showed the equations and assumptions to support it, along with describing the model parameters used. We conveyed our findings under the Results section as we expressed and explained our analysis thoroughly. Lastly, we made a conclusion for our results and accentuated how they may reflect in the real world along with potential opportunities and future studies.

I really liked working with my team as the work was divided fairly evenly between us. Everyone cooperated and worked on whatever they were supposed to accordingly as well. David was the main programmer as he coded and ran all the simulations on his computer, graphing the results and sharing them with us. He also constructed our model and listed all the equations. Morgan was the main coordinator of the group as she set certain deadlines for us to complete our tasks before to ensure we are all on track. She also organized the structure of the project, especially the Methods and Results section to create a nice flow when reading through it. I primarily focused on explaining the model parameters, writing the conclusions, limitations and future studies, and proofread the entire project before submitting the final draft before the presentation. Jacob did a bit of everything but mainly made the necessary changes after feedback was provided for the final draft as all of us were too busy to edit it during finals week. Overall, everyone did an equal job in this project, and we believe that given the right time and opportunity, we may gather to further review this project again.