

Dummy Title

By Dummies

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Abstract

On 24 April, 2020, a researcher at MIT released a working paper finding that "The Subways Seeded the Massive Coronavirus Epidemic in New York City". While the analysis in the paper has been called into question, it remains true that the role of public transportation in the spread of COVID-19 is still unknown. In this paper, we introduce an agent-based model of the New York City subway and analyze how well it can predict the spread of COVID-19 through the boroughs of New York City.

Our findings that [insert findings here] should interest public health officials looking to make policy decisions about public transportation.

[Writer's note: Of course, this is the ideal final result. We will focus on the early infection period and I give it a 50/50 that we even get to taking into account countermeasures and ridership losses. We will make a preliminary model, improve it, and see how far we can get.]

Background

Epidemics and COVID-19

SEIR Model

Urban Transportation Networks and Subways

Agent-Based Modelling

MESA(Or our model)

Methodology

Results

Conclusion

References

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- [4] Philip Cooley, Shawn Brown, James Cajka, Bernadette Chasteen, Laxminarayana Ganapathi, John Grefenstette, Craig R. Hollingsworth, Bruce Y. Lee, Burton Levine, William D. Wheaton, and et al. The role of subway travel in an influenza epidemic: A new york city simulation. *Journal of Urban Health*, 88(5):982–995, Sep 2011.
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