

Socioeconomic and Environmental Factors on Urban Childhood Asthma

Charles Yu, Class of 2026, Mathematics
Telethon Kids Institute @ Perth WA, Australia
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Introduction

- Asthma is the most prevalent disease among children in Australia
- Relatively uncertain on causes of asthma—lots of variables are correlated, not necessarily shown to cause asthma

Objective of Internship

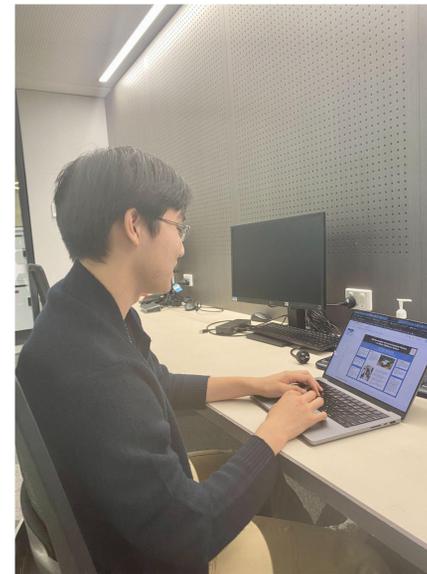
Investigate the causality of socioeconomic and pollution factors on asthma.

Work profile

- Gather data
- Filter data in R
- Build up statistical model utilizing numerous packages
- Visualize the data and create maps to better portray the data
- Draw conclusions

Reflection

- I learned a lot about data analysis, as I have never worked in this field before. In times, just analyzing data can be quite effective at exploring the relationship between different variables.



Charles Yu hard at work, photo credit: Joyce Mo



Exciting dinner. Left to right: Charles Yu, Yonatan Ambrosio, Joyce Mo, Sam Lee. Photo credit: Gia Musselwhite

- I learned a lot about how collaboration and community builds up a stronger foundation and makes research more fulfilling
- Visiting a different country was very rewarding in enhancing my viewpoints, and it also brought us interns together
- It was really helpful to get a glimpse into the work/lifestyle of this career setting for a more extended period of time
- In the end, I'm very satisfied that I had this experience since it was well outside of my comfort zone

Looking ahead

- I would definitely be open to looking into more applied mathematics areas, but I think it'd be cool to explore other areas extending off of what I did in this internship

Questions

How can we bring more attention to global health and bring people to care more about health related issues among children?

Conclusion

Working in a collaborative research environment was a very rewarding experience, especially in a foreign country with diverse perspectives.

Acknowledgements

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