

**Daisuke Yoneoka** Ph.D(Statistics)

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**Research interest:** Biostatistics/Machine Learning and Medical Big Data meet in my lab. I develop novel statistical and machine learning methods to detect patterns and statistical dependencies in large-scale datasets from medicine. My research interests are not only in the development of new theories, but also in medical applications of cutting-edge machine learning models such as Deep Learning and Reinforcement Learning. In addition, through collaborative research, I also conduct analysis of population-health/genomic data and clinical trial design.

**Selected publications:**

1. Yoneoka, Daisuke, Cindy Im, and Yutaka Yasui. "Parallel repulsive logic regression with biological adjacency." *Biostatistics* 21.4 (2020): 825-844.
2. Yoneoka, Daisuke, *et al.* "Geographically weighted generalized Farrington algorithm for rapid outbreak detection over short data accumulation periods." *Statistics in Medicine* 40.28 (2021): 6277-6294.
3. Yoneoka, Daisuke, *et al.* "Identification of optimum combinations of media channels for approaching COVID-19 vaccine unsure and unwilling groups in Japan." *The Lancet Regional Health-Western Pacific* 18 (2022): 100330.