

## Past Postdoctoral Member: Keisuke Ejima, PhD



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I received my Ph.D. in Information Science and Technology from The University of Tokyo in March 2014. I joined the Nutrition and Obesity Research Center (NORC) and Office of Energetics in September of 2014. My research interest is to understand the obesity epidemic with mathematical model, For my post doctoral research, I'll focus on (1) quantification of the impact of vertical transmission of obesity on demography, (2) quantification of the transmission potential of obesity based on the empirical data.

## Publications

1. **Ejima K**, Aihara K, Nishiura H. Probabilistic differential diagnosis of Middle East respiratory syndrome (MERS) using the time from immigration to illness onset among imported cases. *Journal of Theoretical Biology*. 346:47-53 2014
2. Nishiura H, **Ejima K**, Mizumoto K. Missing information in animal surveillance of MERS-CoV. *Lancet Infectious Diseases*. 14(2):100 2014
3. Nishiura H, **Ejima K**, Mizumoto K, Nakaoka S, Inaba H, Imoto S, Yamaguchi R, Saito MM. Cost-effective length and timing of school closure during an influenza pandemic depend on the severity. *Theoretical Biology and Medical Modelling*. 11(1):5 2014
4. **Ejima K**, Aihara K, Nishiura H. The impact of model building on the transmission dynamics under vaccination: Observable (symptom-based) versus unobservable (contagiousness-dependent) approaches. *PLoS ONE*. 8:4:e62062, 2013
5. **Ejima K**, Aihara K, Nishiura H. Modeling the obesity epidemic: Social contagion and its implications for control. *Theoretical Biology and Medical Modelling*. 10:17 2013
6. **Ejima K**, Aihara K, Nishiura H. On the use of chance-adjusted agreement statistic to measure the assortative transmission of infectious diseases. *Computational & Applied Mathematics*. 32(2):303-313 2013
7. Mizumoto K, **Ejima K**, Yamamoto T, Nishiura H. Vaccination and clinical severity: Is the effectiveness of contact tracing and case isolation hampered by past vaccination? *International Journal of Environmental Research and Public Health*. 10(3):816-829 2013
8. Nishiura H, Mizumoto K, **Ejima K**. How to interpret the transmissibility of novel influenza A(H7N9): an analysis of initial epidemiological data of human cases from China. *Theoretical Biology and Medical Modelling*. 10:30 2013
9. **Ejima K**, Omori R, Cowling BJ, Aihara K, Nishiura H. The time required to estimate the case fatality ratio of influenza using only the tip of an iceberg: Joint estimation of the virulence and the transmission potential. *Computational and Mathematical Methods in Medicine*. 978901 2012
10. **Ejima K**, Omori R, Aihara K, Nishiura H. Real-time investigation of measles epidemics with estimate of vaccine efficacy. *International Journal of Biological Sciences*. 8:620-9 2012

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11. Nishiura H, Mizumoto K, **Ejima K**, Zhong Y, Cowling BJ, Omori R. Incubation period as part of the case definition of severe respiratory illness caused by a novel corona virus. *Eurosurveillance*. 17:pii=20296 2012

**Years:** 2014 - 2017

**Mentor:** David B. Allison, PhD

**Source URL:** <http://norc.uab.edu/people/kejima>

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