

# CURRICULUM VITAE

Juanjuan Zhang, PhD

## CURRENT POSITION

Assistant Professor, Department of Epidemiology, School of Public Health, Fudan University, Shanghai, China

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## RESEARCH INTERESTS

Juanjuan Zhang's research leverages mathematical/computational modeling and data science to provide a quantitative framework for:

- Understanding the transmission dynamics, epidemiological parameters, disease burden, and intervention evaluation of infectious diseases;
- Quantifying human social contact and mobility patterns to understand the interaction between human behavior and transmission dynamics of infectious diseases.

Most of her research has a key practical goal: support public health evidence-based decision-making.

## WORK EXPERIENCE

2022.11-present	<b>Visiting scholar</b> , School of Public Health, Indiana University, US Mentor: Marco Ajelli
2021-present	<b>Assistant Professor</b> , School of Public Health, Fudan University, China
2019-2021	<b>Postdoctoral</b> , School of Public Health, Fudan University, China Mentor: Hongjie Yu

## EDUCATION

2018	<b>Visiting scholar</b> , London School of Hygiene & Tropical Medicine
2016-2019	<b>Ph.D.</b> in <i>Epidemiology</i> and Biostatistics, Fudan University, China Mentor: Hongjie Yu
2013-2016	<b>M.S.</b> in Epidemiology and <i>Biostatistics</i> , Southern Medical University, China
2009-2013	<b>B.S.</b> in <i>Biostatistics</i> , Southern Medical University, China

## MAIN PUBLICATIONS

1. **Zhang, J.**, et al. (2023). "Heterogeneous changes in mobility in response to the SARS-CoV-2 Omicron BA.2 outbreak in Shanghai." medRxiv: 2023.2005.2012.23289890.
2. Kummer, A. G. <sup>†</sup>, **Zhang J**<sup>†</sup>, et al. (2023). "Evaluating seasonal variations in human contact patterns and their impact on the transmission of respiratory infectious diseases." medRxiv: 2022.2002.2022.22271357.
3. **Zhang J**, Litvinova M, Liang Y, Wang Y, Wang W, Zhao S, Wu Q, Merler S, Viboud C, Vespignani A, Ajelli M<sup>\*</sup>, Yu H<sup>\*</sup>. Changes in contact patterns shape the dynamics of the COVID-19 outbreak in China. *Science*. 2020; 368 (6498): 1481-1486. (ESI hot paper, ESI highly cited paper)
4. **Zhang J**<sup>†</sup>, Litvinova M<sup>†</sup>, Wang W<sup>†</sup>, Wang Y, Deng X, Chen X, Li M, Zheng W, Yi L, Chen X, Wu Q, Liang Y, Wang X, Yang J, Sun K, Longini Jr IM, Halloran ME, Wu P, Cowling BJ, Merler S, Viboud C, Vespignani A, Ajelli M<sup>\*</sup>, Yu H<sup>\*</sup>. Evolving epidemiology and transmission dynamics of novel coronavirus disease 2019 outside Hubei Province in China: a descriptive and modeling study. *Lancet Infect Dis*. 2020; 20 (7): 793-802. (ESI highly cited paper)
5. **Zhang J**, Litvinova M, Liang Y, Zheng W, Shi H, Vespignani A, Viboud C, Ajelli M<sup>\*</sup>, Yu H<sup>\*</sup>. The impact of relaxing interventions on human contact patterns and SARS-CoV-2 transmission in China. *Science Advances*. 2021; 7(19): eabe2584.
6. Chen Z<sup>†</sup>, Deng X<sup>†</sup>, Fang L<sup>†</sup>, Sun K, Wu Y, Che T, Zou J, Cai J, Liu H, Wang Y, Wang T, Tian Y, Zheng N, Yan X, Sun R, Xu X, Zhou X, Ge S, Liang Y, Yi L, Yang J, **Zhang J**<sup>\*</sup>, Ajelli, M, Yu H<sup>\*</sup>. Epidemiological characteristics and

transmission dynamics of the outbreak caused by the SARS-CoV-2 Omicron variant in Shanghai, China: A descriptive study. *The Lancet Regional Health - Western Pacific*. 2022; 29: 100592. (ESI highly cited paper)

7. Liu QH<sup>†</sup>, **Zhang J**<sup>†</sup>, Peng C, Litvinova M, Huang S, Poletti P, Trentini F, Guzzetta G, Marziano V, Zhou T, Viboud C, Bento AI, Lv J, Vespignani A, Merler S, Yu H<sup>\*</sup>, Ajelli M<sup>\*</sup>. Model-based evaluation of alternative reactive class closure strategies against COVID-19. *Nature communications*. 2022; 13(1):322.
8. Liu H<sup>†</sup>, **Zhang J**<sup>†</sup>, Cai J, Deng X, Peng C, Chen X, Yang J, Wu Q, Chen X, Chen Z, Zheng W, Viboud C, Zhang W, Ajelli M, Yu H<sup>\*</sup>. Investigating vaccine-induced immunity and its effect in mitigating SARS-CoV-2 epidemics in China. *BMC Medicine*. 2022; 20(1):37.
9. Liang Y, Peng C, You Q, Litvinova M, Ajelli M, **Zhang J**<sup>\*</sup>, Yu H<sup>\*</sup>. Estimating Changes in Contact Patterns in China Over the First Year of the COVID-19 Pandemic: Implications for SARS-CoV-2 Spread — Four Cities, China, 2020. *China CDC Weekly*, 2023, 5(5): 113-118.
10. Zheng W, Deng X, Peng C, Yan X, Zheng N, Chen Z, Yang J, Ajelli M, **Zhang J**<sup>\*</sup>, Yu H. Risk Factors Associated with the Spatiotemporal Spread of the SARS-CoV-2 Omicron BA.2 Variant — Shanghai Municipality, China, 2022. *China CDC Weekly*, 2023, 5(5): 97-102.
11. **Zhang J**, Klepac P, Read J, Rosello A, Wang X, Lai S, Li M, Song Y, Wei Q, Jiang H, Yang J, Lynn H, Flasche S, Jit M, Yu H<sup>\*</sup>. Patterns of human social contact and contact with animals in Shanghai, China. *Scientific Reports*. 2019; 9(1): 15141.