

CURRICULUM VITAE

December 21, 2023

Stefano Merler, born in Trento (Italy) on December 13, 1968.
Director of the Center for Health Emergencies, Bruno Kessler Foundation.

Positions

1995 - 1996: Fellowship, ITC-IRST, Italy

1996 - 1999: Fellowship, Center of Alpine Ecology, Italy

1999 - present: Senior Researcher (permanent position), Bruno Kessler Foundation (FBK), Italy

2013 - 2020: Head of the DPCS (Dynamical Processes in Complex Societies) Research Unit at FBK

2018 - present: Head of the FBK-FEM Joint Research Unit EPILAB

2021 - present: Director of the FBK Center for Health Emergencies

2021 - present: Head of the FBK-ISS Joint Laboratory EPIQ

2022 - present: Head of the FBK-UNITN Joint Laboratory EPIMAT

Research

My research has covered a range of scientific topics related to the epidemiology of infectious diseases, the statistical, mathematical and computational modelling of infectious diseases transmission, the evaluation of the effectiveness of intervention measures. I have carried out research on emerging infectious diseases (influenza, SARS-CoV-2), vector-borne diseases

(chikungunya, yellow fever, Zika, dengue), antimicrobial resistance (Methicillin-resistant *Staphylococcus aureus*, *Klebsiella pneumoniae* carbapenemase producing), childhood diseases (morbillo, chickenpox, respiratory syncytial virus, tuberculosis), filoviruses (Zaire and Sudan ebolaviruses, Marburg), sexually transmitted diseases (mpox).

- Author of 175 research papers, with 155 academic papers for a cumulative JCR 2022 - Impact Factor (updated June 2023) of 1584.8 and 20 conference proceedings and book chapters; h-index: 60 (Google Scholar), 44 (Scopus); total citations: 23601 (Google Scholar), 13076 (Scopus).
- During the COVID-19 pandemic I served as scientific advisor for the Italian National Institute of Health (Istituto Superiore di Sanità), the Italian Ministry of Health, the Special Commissioner for the COVID-19 Emergency (Commissario Straordinario per l’Emergenza COVID-19) and the Italian Scientific and Technical Committee (Comitato Tecnico-Scientifico).
- During the 2009 H1N1 pandemic I served as scientific advisor for the Italian National Institute of Health (Istituto Superiore di Sanità).
- My research groups have obtained fundings of €5,159,922.
- National scientific qualification (2023) as full professor for the disciplinary field of 06/M1 - Hygiene, public health, nursing and medical statistics.
- Awarded with the 15th Bellman Prize (2015) for the paper by P. Poletti et al., *Risk perception and effectiveness of uncoordinated behavioral responses in an emerging epidemic*, *Mathematical Biosciences*, 238(2):80-89, 2012.
- Awarded with the 2016 Aspen Prize for the paper by S. Merler et al., *Spatiotemporal spread of the 2014 outbreak of Ebola virus disease in Liberia and the effectiveness of non-pharmaceutical interventions: a computational modelling analysis*, *The Lancet Infectious Diseases*, 15(2):204-211, 2015.
- Winner of the 2018 D4R Big Data Challenge for the paper by P. Bosetti et al., *Heterogeneity in social and epidemiological factors determines the risk of measles outbreaks*, *Proceedings of the National Academy of Sciences of the United States of America*, 117(48):30118-30125, 2020.
- In May 2021, the journal *Nature* summarised key COVID-19 papers one year into the pandemic (<https://www.nature.com/articles/d41586-020-00502-w>). Among those, two papers led by the FBK Center for Health Emergencies: J. Zhang et al., *Changes in contact patterns shape the dynamics of the COVID-19 outbreak in China*. *Science*, 368(6498):1481-1486, 2020; P. Poletti et al., *Association of Age With Likelihood of Developing Symptoms and Critical Disease Among Close Contacts Exposed to Patients With Confirmed SARS-CoV-2 Infection in Italy*. *JAMA Network Open*, 4(3):e211085, 2021.

Grants

1. SeCOV - Enhancing Whole Genome Sequencing (WGS), national infrastructures and capacities to respond to the Covid-19 pandemic in Italy.
EU4H-2022-DGA-MS-IBA-01-01: enhance and/or improve national public health WGS and/or RT-PCR capacity, 2023-2025, €183.899
Role: Team member
2. MONITOR - Convenzione con Regione Lombardia su metodi di epidemiologia quantitativa per la sorveglianza della pandemia SARS-CoV-2 e delle altre malattie infettive.
Lombardy Region, 2022-2024, €120.000
Role: Team Leader
3. INF-ACT - One Health Basic and Translational Research Actions addressing Unmet Needs on Emerging Infectious Diseases.
PNRR-PE, 2022-2025, €1.520.000.
Role: Team Leader, Co-Leader Node 4 -on Epidemiology, monitoring and modelling (EPI-MOD)
4. HEALTHY SAILING - Prevention, mitigation, management of infectious diseases on cruise ships and passenger ferries.
HORIZON-CL5-2021-D6-01: Safe, Resilient Transport and Smart Mobility services for passengers and goods (HORIZON-CL5-2021-D6-01-12 – Controlling infection on large passenger ships), 2022-2025, €213.000.
Role: Team Member
5. EPIQ - Quantitative epidemiology - Joint Lab FBK-ISS
Istituto Superiore di Sanità, 2022-2025, €366.000.
Role: Team Leader
6. VERDI - SARS-coV2 variants Evaluation in pRegnancy and paeDIiatrics cohorts.
HORIZON-HLTH-2021-CORONA-01: COVID19 – HERA Incubator (HORIZON-HLTH-2021-CORONA-01-02 – Cohorts united against COVID-19 variants of concern), 2021-2024, €110.000.
Role: Team Member
7. COVIDVAX - Impatto della vaccinazione COVID-19 su mortalità e misure di mitigazione.
Fondazione VRT, 2021-2022, €25.000.
Role: Team member
8. Effect of the introduction of FLUAD TETRATM influenza vaccine on existing influenza vaccination program in Italy: a modelling and cost-effectiveness analysis.
Seqirus S.r.l., 2020-2021, €50.000.
Role: Team Coordinator

9. COVIDTN - Epidemiologia e trasmissione di COVID-19 in Trentino.
Fondazione VRT, 2020-2020, €87.300.
Role: Team Coordinator
10. MOOD - Monitoring outbreak events for disease surveillance in a data science context.
H2020-EU.3.1.2. – Preventing disease (SC1-BHC-13-2019 - Mining big data for early detection of infectious disease threats driven by climate change and other factors), 2020-2024, €309.000.
Role: Team Coordinator
11. VESTEC - Visual Exploration and Sampling Toolkit for Extreme Computing.
H2020-EU.1.2.2. – FET Proactive (FETHPC-02-2017 – Transition to Exascale Computing), 2018-2021, €230.000.
Role: Team Member
12. Reinforcement of the surveillance system and control of infectious diseases in Ethiopia.
Agenzia Italiana per la Cooperazione allo Sviluppo, 2018-2021, €543.677.
Role: Team Coordinator
13. Post-hoc cost-effectiveness analysis of the FLUCELVAX QUADRIVALENTTM influenza vaccine in Italy: analysis from a dynamic model of influenza transmission.
Seqirus S.r.l., 2019, €14.500.
Role: Team Coordinator
14. Effect of introduction of FLUCELVAX QUADRIVALENTTM influenza vaccine on existing influenza vaccination programme in Italy: a modelling and cost-effectiveness analysis.
Ospedale Pediatrico Bambino Gesù, 2018-2019, €32.500.
Role: Team Coordinator
15. Hypothesis of exogenous boosting and epidemiology of varicella and herpes zoster in the US.
Merck Sharp & Dohme Corp., 2018-2019, €98.000.
Role: Team member
16. Traiettorie evolutive del virus USUTU in aree endemiche del nord-est d'Italia e valutazione del rischio di trasmissione all'uomo tramite trasfusione di sangue.
Italian Ministry of Health, 2018-2019, €30.000.
Role: Team Member
17. Modelling the transmission and control of methicillin-resistant *Staphylococcus aureus* in community and health care institutions.
Akershus University Hospital and Norwegian Institute of Public Health, 2017-2018, €15.000.
Role: Team Member

18. Training di un ricercatore FEM riguardo l'implementazione di tecniche computazionali per lo sviluppo di modelli epidemiologici per la diffusione di malattie trasmesse da zanzare ed in particolare dal virus Zika.
Fondazione Edmund Mach, 2017-2018, €15.000.
Role: Team Coordinator
19. CIMPLEX - Participatory, Interactive Social Exploratories: Bringing together Citizens, Models and Data.
H2020-EU.1.2.2. – FET Proactive (FETPROACT-1-2014 – Global Systems Science (GSS)), 2015-2018, €198.750.
Role: Team Coordinator
20. LEXEM - Laboratory of Excellence for Epidemiology and Modelling. Facing the invasion of Invasive Alien Species (IAS) into the territory of the Province of Trento.
Grandi Progetti, Provincia di Trento, 2013-2017, €216.390.
Role: Team Coordinator
21. EPIWORK - Developing the framework for an epidemic forecast infrastructure.
FP7-ICT – Specific Programme "Cooperation": Information and communication technologies (ICT-2007.8.4 – Science of complex systems for socially intelligent ICT), 2009-2013, €272.700.
Role: Team Coordinator
22. Vaccine preventable diseases modelling in the European Union and EEA/EFTA countries: forecasting the effect of introducing a new vaccine in a national/regional program.
European Centre for Disease Prevention and Control (ECDC), 2009-2012, €26.449.
Role: Team coordinator
23. Messa a punto di strumenti epidemiologici per il monitoraggio dell'influenza in Italia.
Italian Ministry of Health, 2009-2011, €30.000.
Role: Team coordinator
24. Supporto alle attività istituzionali correnti del CCM con particolare riguardo alle attività di sorveglianza, analisi e valutazione dei rischi per la salute pubblica nell'ambito della realizzazione e gestione di una sala situazioni e di una rete d'informazione rapida.
Italian Ministry of Health, 2009-2011, €140.000.
Role: Team coordinator
25. FLUMODCONT - Modelling the spread of pandemic influenza and strategies for its containment and mitigation.
FP7-HEALTH – Specific Programme "Cooperation": Health (HEALTH-2007-2.3.3-6 – Development of pandemic influenza containment and mitigation strategies), 2008-2011, €212.757.
Role: Team coordinator

26. Chikungunya virus infection: epidemiological and clinical features.
Italian Ministry of Health, 2008-2011, €100.000.
Role: Team coordinator

Publications¹

- [1] G. Guzzetta, M. Ajelli, A. Miglietta, C. Fazio, A. Neri, S. Merler, G. Rezza, and P. Stefanelli. Evaluating the effect of targeted strategies as control tools for hypervirulent meningococcal C outbreaks: a case study from Tuscany, Italy, 2015 to 2016. *Eurosurveillance*, 28(19), 2023. [**impact factor: 19.000**].
- [2] F. Menegale, M. Manica, A. Zardini, G. Guzzetta, V. Marziano, V. d’Andrea, F. Trentini, M. Ajelli, P. Poletti, and S. Merler. Evaluation of Waning of SARS-CoV-2 Vaccine-Induced Immunity: A Systematic Review and Meta-analysis. *JAMA Network Open*, 6(5):e2310650, 2023. [**impact factor: 13.800**].
- [3] V. Marziano, G. Guzzetta, I. Longini, and S. Merler. Estimates of Serial Interval and Reproduction Number of Sudan Virus, Uganda, August-November 2022. *Emerging Infectious Diseases*, 29(7):1429–1432, 2023. [**impact factor: 11.800**].
- [4] H. J. Ang, F. Menegale, G. Preziosi, E. Pariani, M. Migliari, L. Pellegrinelli, G. M. Sechi, S. Buoro, S. Merler, D. Cereda, M. Tirani, P. Poletti, and I. Dorigatti. Reconstructing the impact of COVID-19 on the immunity gap and transmission of respiratory syncytial virus in Lombardy, Italy. *eBioMedicine*, 95:104745, 2023. [**impact factor: 11.100**].
- [5] G. Fedele, I. Schiavoni, F. Trentini, P. Leone, E. Olivetta, A. Fallucca, S. Fiore, A. Di Martino, S. Abrignani, V. Baldo, T. Baldovin, A. Bandera, P. Clerici, M. De Paschale, F. Diaco, A. Domnich, F. Fortunato, I. Giberti, A. Gori, R. Grifantini, T. Lazzarotto, V. Lodi, C. M. Mastroianni, R. Prato, V. Restivo, F. Vitale, S. Brusafferro, S. Merler, A. T. Palamara, P. Stefanelli, and Study Group for the Immunological Monitoring post Covid19 vaccination. A 12-month follow-up of the immune response to SARS-CoV-2 primary vaccination: evidence from a real-world study. *Frontiers in immunology*, 14:1272119, 2023. [**impact factor: 7.300**].
- [6] M. Galli, A. Zardini, W. N. Gamshie, S. Santini, A. Tsegaye, F. Trentini, V. Marziano, G. Guzzetta, M. Manica, V. d’Andrea, G. Putoto, F. Manenti, M. Ajelli, P. Poletti, and S. Merler. Priority age targets for COVID-19 vaccination in Ethiopia under limited vaccine supply. *Scientific Reports*, 13(1):5586, 2023. [**impact factor: 4.600**].
- [7] V. Marziano, G. Guzzetta, F. Menegale, C. Sacco, D. Petrone, A. Mateo Urdiales, M. Del Manso, A. Bella, M. Fabiani, M. F. Vescio, F. Riccardo, P. Poletti, M. Manica,

¹JCR 2022 - Impact Factor, updated June 2023

- A. Zardini, V. d'Andrea, F. Trentini, P. Stefanelli, G. Rezza, A. T. Palamara, S. Brusaferrò, M. Ajelli, P. Pezzotti, and S. Merler. Estimating SARS-CoV-2 infections and associated changes in COVID-19 severity and fatality. *Influenza and Other Respiratory Viruses*, 17(8):e13181, 2023. [**impact factor: 4.400**].
- [8] M. Manica, P. Poletti, S. Deandrea, G. Mosconi, C. Ancarani, S. Lodola, G. Guzzetta, V. d'Andrea, V. Marziano, A. Zardini, F. Trentini, A. Odone, M. Tirani, M. Ajelli, and S. Merler. Estimating SARS-CoV-2 transmission in educational settings: A retrospective cohort study. *Influenza and Other Respiratory Viruses*, 17:e13049, 2023. [**impact factor: 4.400**].
- [9] M. Manica, M. Litvinova, A. De Bellis, G. Guzzetta, P. Mancuso, M. Vicentini, F. Venturelli, E. Bisaccia, A. I. Bento, P. Poletti, V. Marziano, A. Zardini, V. d'Andrea, F. Trentini, A. Bella, F. Riccardo, P. Pezzotti, M. Ajelli, P. Giorgi Rossi, S. Merler, and Reggio Emilia COVID-19 Working Group. Estimation of the incubation period and generation time of SARS-CoV-2 Alpha and Delta variants from contact tracing data. *Epidemiology & Infection*, 151:e5, 2023. [**impact factor: 4.200**].
- [10] M. Manica, G. Marini, A. Solimini, G. Guzzetta, P. Poletti, P. Scognamiglio, C. Virgillito, A. Della Torre, S. Merler, R. Rosà, F. Vairo, and B. Caputo. Reporting delays of chikungunya cases during the 2017 outbreak in Lazio region, Italy. *PLoS Neglected Tropical Diseases*, 17(9):e0011610, 2023. [**impact factor: 3.800**].
- [11] C. Molina Grané, P. Mancuso, M. Vicentini, F. Venturelli, O. Djuric, M. Manica, G. Guzzetta, V. Marziano, A. Zardini, V. d'Andrea, F. Trentini, E. Bisaccia, E. Larosa, S. Cilloni, M. T. Cassinadri, P. Pezzotti, M. Ajelli, P. G. Rossi, S. Merler, and P. Poletti. SARS-CoV-2 transmission patterns in educational settings during the Alpha wave in Reggio-Emilia, Italy. *Epidemics*, 44:100712, 2023. [**impact factor: 3.800**].
- [12] A. B. B. Wilke, D. Damian, M. Litvinova, T. Byrne, A. Zardini, P. Poletti, S. Merler, J.-P. Mutebi, J. Townsend, and M. Ajelli. Spatiotemporal distribution of vector mosquito species and areas at risk for arbovirus transmission in Maricopa County, Arizona. *Acta Tropica*, 240:106833, 2023. [**impact factor: 2.700**].
- [13] M. Manica, A. De Bellis, G. Guzzetta, P. Mancuso, M. Vicentini, F. Venturelli, A. Zerbini, E. Bisaccia, M. Litvinova, F. Menegale, C. Molina Grané, P. Poletti, V. Marziano, A. Zardini, V. d'Andrea, F. Trentini, A. Bella, F. Riccardo, P. Pezzotti, M. Ajelli, P. Giorgi Rossi, S. Merler, and Reggio Emilia COVID-19 Working Group. Intrinsic generation time of the SARS-CoV-2 Omicron variant: An observational study of household transmission. *The Lancet Regional Health - Europe*, 19:100446, 2022. [**impact factor: 20.900**].
- [14] P. Stefanelli, F. Trentini, D. Petrone, A. Mammone, L. Ambrosio, M. Manica, G. Guzzetta, V. d'Andrea, V. Marziano, A. Zardini, C. Molina Grane', M. Ajelli, A. Di Martino, F. Riccardo, A. Bella, M. Sane Schepisi, F. Maraglino, P. Poletti, A. T. Palamara, S. Brusaferrò,

- G. Rezza, P. Pezzotti, S. Merler, Genomic SARS-CoV-2 National Surveillance Working Group, and Italian Integrated Surveillance of COVID-19 Study Group. Tracking the progressive spread of the SARS-CoV-2 Omicron variant in Italy, December 2021 to January 2022. *Eurosurveillance*, 27(45):pii=2200125, 2022. [**impact factor: 19.000**].
- [15] P. Stefanelli, F. Trentini, G. Guzzetta, V. Marziano, A. Mammone, M. Sane Schepisi, P. Poletti, C. Molina Grané, M. Manica, M. Del Manso, X. Andrianou, M. Ajelli, G. Rezza, S. Brusaferrero, S. Merler, and COVID-19 National Microbiology Surveillance Study Group. Co-circulation of SARS-CoV-2 Alpha and Gamma variants in Italy, February and March 2021. *Eurosurveillance*, 27(5):pii=2100429, 2022. [**impact factor: 19.000**].
- [16] Q.-H. Liu, J. Zhang, C. Peng, M. Litvinova, S. Huang, P. Poletti, F. Trentini, G. Guzzetta, V. Marziano, T. Zhou, C. Viboud, A. I. Bento, J. Lv, A. Vespignani, S. Merler, H. Yu, and M. Ajelli. Model-based evaluation of alternative reactive class closure strategies against COVID-19. *Nature Communications*, 13(1):322, 2022. [**impact factor: 16.600**].
- [17] G. Guzzetta, A. Mammone, F. Ferraro, A. Caraglia, A. Rapiti, V. Marziano, P. Poletti, D. Cereda, F. Vairo, G. Mattei, F. Maraglino, G. Rezza, and S. Merler. Early Estimates of Monkeypox Incubation Period, Generation Time, and Reproduction Number, Italy, May-June 2022. *Emerging Infectious Diseases*, 28(10), 2022. [**impact factor: 11.800**].
- [18] M. Manica, S. Pancheri, P. Poletti, G. Giovanazzi, G. Guzzetta, F. Trentini, V. Marziano, M. Ajelli, M. G. Zuccali, P. P. Benetollo, S. Merler, and A. Ferro. The risk of symptomatic infection during a second COVID-19 wave, in SARS-CoV-2 seropositive individuals. *Clinical Infectious Diseases*, 74(5):893–896, 2022. [**impact factor: 11.800**].
- [19] F. Riccardo, G. Guzzetta, A. M. Urdiales, M. Del Manso, X. D. Andrianou, A. Bella, P. Pezzotti, S. Carbone, T. De Vito, F. Maraglino, V. Demicheli, C. Dario, E. Coscioni, G. Rezza, A. Urbani, S. Merler, S. Brusaferrero, and Italian COVID-19 monitoring group. COVID-19 response: effectiveness of weekly rapid risk assessments, Italy. *Bulletin of the World Health Organization*, 100(2):161–167, 2022. [**impact factor: 11.100**].
- [20] G. Fedele, F. Trentini, I. Schiavoni, S. Abrignani, G. Antonelli, V. Baldo, T. Baldovin, A. Bandera, F. Bonura, P. Clerici, M. De Paschale, F. Fortunato, A. Gori, R. Grifantini, G. Icardi, T. Lazzarotto, V. Lodi, C. M. Mastroianni, A. Orsi, R. Prato, V. Restivo, R. Carsetti, E. Piano Mortari, P. Leone, E. Olivetta, S. Fiore, A. Di Martino, S. Brusaferrero, S. Merler, A. T. Palamara, P. Stefanelli, and the Study Group for the Immunological Monitoring post Covid-19 vaccination. Evaluation of humoral and cellular response to four vaccines against COVID-19 in different age groups: a longitudinal study. *Frontiers in Immunology*, 13:1021396, 2022. [**impact factor: 7.300**].
- [21] F. Trentini, V. Marziano, G. Guzzetta, M. Tirani, D. Cereda, P. Poletti, R. Piccarreta, A. Barone, G. Preziosi, F. Arduini, P. G. D. Valle, A. Zanella, F. Grosso, G. Castillo, A. Castrofino, G. Grasselli, A. Melegaro, A. Piatti, A. Andreassi, M. Gramegna, M. Ajelli, and

- S. Merler. The pressure on healthcare system and intensive care utilization during the COVID-19 outbreak in the Lombardy region: a retrospective observational study on 43,538 hospitalized patients. *American Journal of Epidemiology*, 191(1):137–146, 2022. **[impact factor: 5.000]**.
- [22] P. F. Caruso, G. Angelotti, M. Greco, G. Guzzetta, D. Cereda, S. Merler, and M. Cecconi. Early prediction of SARS-CoV-2 reproductive number from environmental, atmospheric and mobility data: A supervised machine learning approach. *International Journal of Medical Informatics*, 162:104755, 2022. **[impact factor: 4.900]**.
- [23] F. Trentini, E. Pariani, A. Bella, G. Diurno, L. Crottogini, C. Rizzo, S. Merler, and M. Ajelli. Characterizing the transmission patterns of seasonal influenza in Italy: lessons from the last decade. *BMC Public Health*, 22(1):19, 2022. **[impact factor: 4.500]**.
- [24] F. Riccardo, E. M. Frisicale, G. Guzzetta, F. Ferraro, S. Merler, G. Maringhini, M. Spuri, D. Petrone, M. C. Rota, A. Rapiti, U. Angeloni, P. Rossi, M. Tallon, S. Giannitelli, P. Pezzotti, M. Del Manso, A. Bella, and F. P. Maraglino. Winning during a pandemic: epidemiology of SARS-CoV-2 during EURO2020 in Italy. *Epidemiology & Infection*, 150:1–7, 2022. **[impact factor: 4.200]**.
- [25] F. Trentini, A. Manna, N. Balbo, V. Marziano, G. Guzzetta, S. O’Dell, A. G. Kummer, M. Litvinova, S. Merler, M. Ajelli, P. Poletti, and A. Melegaro. Investigating the relationship between interventions, contact patterns, and SARS-CoV-2 transmissibility. *Epidemics*, 40:100601, 2022. **[impact factor: 3.800]**.
- [26] S. Marchetti, A. Borin, F. P. Conteduca, G. Ilardi, G. Guzzetta, P. Poletti, P. Pezzotti, A. Bella, P. Stefanelli, F. Riccardo, S. Merler, A. Brandolini, and S. Brusaferrò. An epidemic model for SARS-CoV-2 with self-adaptive containment measures. *PLoS One*, 17(7):e0272009, 2022. **[impact factor: 3.700]**.
- [27] L. Ambrosio, M. Chiara, A. Lo Presti, P. Poletti, C. Alteri, D. Cacchiarelli, V. Bouchè, M. Morgante, A. Ballabio, C. F. Perno, S. Merler, G. Pesole, and P. Stefanelli. SARS-CoV-2 variants: what have we learnt so far? Commentary. *Annali dell’Istituto Superiore di Sanità*, 58(2):81–84, 2022. **[impact factor: 2.100]**.
- [28] G. E. Calabrò, S. Boccalini, D. Panatto, C. Rizzo, M. L. Di Pietro, F. M. Abreha, M. Ajelli, D. Amicizia, A. Bechini, I. Giacchetta, P. L. Lai, S. Merler, C. Primieri, F. Trentini, S. Violi, P. Bonanni, and C. de Waure. The New Quadrivalent Adjuvanted Influenza Vaccine for the Italian Elderly: A Health Technology Assessment. *International Journal of Environmental Research and Public Health*, 19(7):4166, 2022. **[impact factor: -]**.
- [29] J. T. Davis, M. Chinazzi, N. Perra, K. Mu, A. P. Y. Piontti, M. Ajelli, N. E. Dean, C. Gioanini, M. Litvinova, S. Merler, L. Rossi, K. Sun, X. Xiong, I. M. Longini Jr, M. E. Hallo-

- ran, C. Viboud, and A. Vespignani. Cryptic transmission of SARS-CoV-2 and the first COVID-19 wave. *Nature*, 600:127–132, 2021. [**impact factor: 64.800**].
- [30] J. Yang, V. Marziano, X. Deng, G. Guzzetta, J. Zhang, F. Trentini, J. Cai, P. Poletti, W. Zheng, W. Wang, Q. Wu, Z. Zhao, K. Dong, G. Zhong, C. Viboud, S. Merler, M. Ajelli, and H. Yu. Despite vaccination, China needs non-pharmaceutical interventions to prevent widespread outbreaks of COVID-19 in 2021. *Nature Human Behaviour*, 5:1009–1020, 2021. [**impact factor: 29.900**].
- [31] V. Marziano, G. Guzzetta, A. Mammone, F. Riccardo, P. Poletti, F. Trentini, M. Manica, A. Siddu, A. Bella, P. Stefanelli, P. Pezzotti, M. Ajelli, S. Brusaferrero, G. Rezza, and S. Merler. The effect of COVID-19 vaccination in Italy and perspectives for living with the virus. *Nature Communications*, 12(1):7272, 2021. [**impact factor: 16.600**].
- [32] M. Manica, G. Guzzetta, F. Riccardo, A. Valenti, P. Poletti, V. Marziano, F. Trentini, X. Andrianou, A. Mateo-Urdiales, M. Del Manso, M. Fabiani, M. F. Vescio, M. Spuri, D. Petrone, A. Bella, S. Iavicoli, M. Ajelli, S. Brusaferrero, P. Pezzotti, and S. Merler. Impact of tiered restrictions on human activities and the epidemiology of the second wave of COVID-19 in Italy. *Nature Communications*, 12(1):4570, 2021. [**impact factor: 16.600**].
- [33] D. Mistry, M. Litvinova, A. Pastore Y Piontti, M. Chinazzi, L. Fumanelli, M. F. C. Gomes, S. A. Haque, Q.-H. Liu, K. Mu, X. Xiong, M. E. Halloran, I. M. Longini Jr, S. Merler, M. Ajelli, and A. Vespignani. Inferring high-resolution human mixing patterns for disease modeling. *Nature Communications*, 12(1):323, 2021. [**impact factor: 16.600**].
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