



**San Diego State University
Metabolism of Cities Living Lab, Center for Human Dynamics in the Mobile Age (HDMA)
Department of Geography, San Diego, California, USA**

HDMA-COVID-19 International Team Members Biography



Note:

Researchers are offering tools, equipment, time, and expertise to help fight the COVID-19 pandemic. If you are interested in being a part of our HDMA-Covid-19 team please get in contact with Dr. Gabriela Fernandez at gfernandez2@sdsu.edu.

Name & Affiliation	Biography	Photo
Dr. Gabriela Fernandez, Department of Geography, Center for Human Dynamics in the Mobile Age (HDMA), San Diego, California (USA)	Dr. Gabriela Fernandez is an Adjunct Faculty in the Department of Geography and Principal Investigator at the Center for Human Dynamics in the Mobile Age (HDMA) where she is leading a team of international interdisciplinary Covid-19 research experts monitoring 10 cities in Italy using social media and geospatial data analytics. She is the Graduate Advisor of the Big Data Analytics Master of Science Program (BDA) at San Diego State University in San Diego. She received a Ph.D. in Urban Planning, Design, and Policy from the Department of Architecture and Urban Studies at the Politecnico di Milano (POLIMI) in Milan, Italy (2018). During her studies she was a Ph.D. Visiting Student at the Massachusetts Institute of Technology (MIT), Department of Architecture, Building Technology, and Urban Metabolism Group. She received a B.S. in Public Administration with an emphasis in City Planning and a Master of City Planning from the School of Public Affairs at San Diego State University. Her research interests include urban metabolism ideologies and material flow analysis of metropolitan cities. Identifying urban typologies and socioeconomic indicators in the urban context while promoting public policy, smart cities, data science, circular economy methods, United Nations Sustainable Development Goals (SDGs), and under representative populations. Dr. Fernandez serves as the United Nations Environmental Program (UNEP) delegate for the <u>Major Group for Children & Youth</u>. As part of the SDSU Big Ideas Challenge, Dr. Fernandez is the Director of the <u>Metabolism of Cities Living Lab</u> (MOC-LLAB) under the HDMA at SDSU working to localize the <u>United Nations Sustainable Development Goals</u> in southern California and the Baja California Mexico region. For more information please contact me at <u>gfernandez2@sdsu.edu</u>	

Carol Maione, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Milan (Italy)	Carol Maione is a natural scientist, doctoral candidate at Politecnico di Milano (Milan, Italy) and researcher at the Metabolism of Cities Living Lab, San Diego State University (San Diego, California). Her work is focused on multi-level monitoring and dynamic modeling of material flows and pollution cycles across the industrial and natural systems; role and relevance of technology in enhancing a circular economy for plastics; and impacts of anthropogenic pollution on coastal communities and marine-dependent activities. Research interests include marine pollution, microplastics, material flow analysis, remote and proximity sensing, pollution cycle monitoring, ocean and coastal management, underwater survey, and citizen science. Her interest in societal response is at the core of her collaboration with the Center for Human Dynamics in the Mobile Age, San Diego State University, where she collaborated on tracking and mapping self-reported Covid-19 cases. For more information please contact me at <u>cmaione@umich.edu</u>	
Karenina “Nika” Zaballa, Center for Human Dynamics in the Mobile Age (HDMA), San Diego, California (USA)	Karenina is a Master of Science student in Big Data Analytics at San Diego State University in San Diego, California. After earning a Bachelor’s Degree in Computer Science and working in programming and project management for a few years, she decided to pursue a profession in data science. She is currently a Graduate Researcher at the Metabolism of Cities Living Lab at the Center for Human Dynamics in the Mobile Age at San Diego State University as well as the Artificial Intelligence Lab at the same university. She is currently exploring different analytics tools in R, Python, and ArcGIS. Research Interests : Big Data Analytics/ Big Data Science, Italy, Covid-19, Twitter data, sentiment analysis, Geographic Information systems, Machine Learning, AI, Process Design,	

	Metabolism of Cities, Smart Cities, Emergency Disaster Preparedness, Urban Permaculture For more information please contact me at nikazaballa@gmail.com	
Harrison Yang, Center for Human Dynamics in the Mobile Age (HDMA), San Diego, California (USA)	Harrison Yang earned his Master of Science in Big Data Analytics at San Diego State University in San Diego, California. Yang was a researcher at the Metabolism of Cities Living Lab at the Center for Human Dynamics in the Mobile Age at San Diego State University in San Diego, California. His research interests include Statistical Analytics, Cancer data, Covid-19, Sentiment Analysis, Data Visualization, and Data Mining. For more information please contact me at hyang5959@sdsu.edu	
Jack McKew - Engineer Software Developer Data Scientist - Newcastle, (Australia)	Jack McKew is an electrical engineer with a multi-faceted background encompassing software engineering, control systems development and buildings design/construction. Specialising in interactive data science and visualisation, desktop and web full stack development and technical writing. Proven ability to work as a part of multi-disciplinary teams to design, develop, and integrate software solutions to increase efficiency & quality and reduce human-error. Jack currently writes a weekly blog on technology, software development and more at https://jackmckew.dev/ and is the creator/maintainer of open source projects such as https://github.com/JackMcKew/pandas-alive and https://github.com/JackMcKew/awesome-python-bytes Find Jack's curriculum vitae and more at:	

	https://jackmckew.dev/pages/cv-professional.html For more information please contact me at jackmckew2@gmail.com	
Norbert Bonnici Programmable Devices Engineer - Malaga, (Spain)	Norbert Bonnici has a background in radio astrophysics and has experience working on reliability engineering for the defence and space sector in Spain. His experience spans from ionizing radiation effects in microelectronic circuits to rapid application development. He is currently working at the Malta Critical Infrastructure Protection Directorate (Valletta, Malta). When he is not to be found in the office, one can find him in the lab building strange and somewhat useful machines or learning a new skill. For more information please contact me at norbert@bonnici.mt	
Shraddha S. Ghodke , Ph.D. Student, Pharmacy, University of College London (UCL), London, (United Kingdom)	Dr. Shraddha S. Ghodke obtained her Ph.D. from the University of College London (UCL) in the UK on nano-medicine, pharmaceuticals, and lung cancer research. Shraddha is a pharmaceutical scientist with Bachelor's in Pharmacy, Master's in Pharmacy and a Ph.D. in Pulmonary drug delivery from the University of College London. Her major interest focuses on drug delivery to lungs and she has been working on anticancer drug molecules ideally drugs obtained from natural sources. She has developed nebuliser and inhalation formulations for lung cancer disease. Shraddha have participated and presented her Ph.D. research in international scientific conferences such as RDD (Tucson, Arizona), Drug delivery partnerships (DDP) (Palm beach, Florida, USA), UCL (London England U.K.), University of Mumbai (India) and APS (Germany, Europe). Shraddha has also worked as a teaching associate and practical demonstrator in UCL, London. Shraddha's research team works on Pulmonary formulations and Shraddha would like to continue	

	her contribution to the pharmaceutical research field.	
Dr. Jarai Carter, Data Scientist, John Deere, Illinois (USA), Adjunct Faculty, Columbia University, New York, (USA)	Dr. Jarai Carter works as a scientist at the Smart Lab, at Procter & Gamble, in Champaign, Illinois. Her experience include working as a Data Scientist for John Deere, where she co-lead the Data-Driven Innovation team, composed of undergraduates, graduates, and full-time employees. Her research interests include a variety of data science projects in areas such as machine learning, text mining and analytics, spatial analytics, and robotics. Dr. Carter is an Adjunct Faculty in Database Design & SQL at Columbia University in New York. She received her B.S. in Crop Sciences and Ph.D. in Informatics both from the University of Illinois at Urbana-Champaign. For more information please contact me at jarai.carter@gmail.com	
Chanwoo Jin, Ph.D. student, Department of Geography, San Diego State University, San Diego, California, (USA)	Chanwoo Jin is a Joint Ph.D. Doctoral Student in the Department of Geography at San Diego State University (SDSU) and University of California, Santa Barbara (UCSB). He received his B.A. and M.A. in Geography from Seoul National University in Korea. His recent research interests include big data (social media) analysis, spatiotemporal modeling, and human and urban dynamics. You may take a look at his paper list from google scholar. For more information please contact me at cjin@sdsu.edu	

Dr. Brian Spitzberg

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Brian H. Spitzberg is Senate Distinguished Professor Emeritus in the School of Communication at San Diego State University. He received his BA at University of Texas—Arlington (1978), his MA (1980) and PhD (1981) at University of Southern California, and his Certified Threat Management (CTM™) qualification in 2017. He is a core Researcher, Center for Communication, Health, & the Public Good, and a Co-founder & Advisory Board member, Center for Human Dynamics in the Mobile Age, SDSU. He received the 2009 Western States Communication Association Scholar Award, the 2011 National Communication Association Larry Kibler Memorial Award, and the 2017 Mark Knapp NCA Award for career contribution to the study of Interpersonal Communication. His co authored book *The Dark Side of Relationship Pursuit* won both the biennial International Association for Relationship Research Book Award (1st ed.: 2008) and the NCA Gerald Miller book award (2nd ed., 2015). He is author or coauthor of over 140 scholarly articles and book chapters, cited over 15,000 times. He has co authored and co-edited several scholarly books on communication competence and the dark side of communication. His primary areas of research involve meme diffusion, assessment, interpersonal communication skills, jealousy, conflict, threats, coercion, violence, and stalking.

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Rachelle De Ocampo, MPH, Center for Human Dynamics in the Mobile Age (HDMA), San Diego, California (USA)	Rachelle De Ocampo holds a Masters in Public Health with an emphasis in Epidemiology from San Diego State University in San Diego, California. She is a former Graduate Assistant at the Center for Human Dynamics in the Mobile Age at San Diego State University. Her primary areas of research involve big data and health through statistical and spatial analytics and social media. For more information please contact me at rdeocampo7@gmail.com	
Wayne Kepner, MPH, Center for Human Dynamics in the Mobile Age (HDMA), San Diego, California (USA)	Wayne Kepner is currently a Ph.D. student in the Interdisciplinary Research on Substance Use (IRSU) joint doctoral program at San Diego State University (SDSU) and University of California, San Diego (UCSD). He received his Masters in Public Health degree at San Diego State University, and his Bachelor's degree in History at the University of California, Los Angeles (UCLA). He has been involved in various non-profit organizations and in Drunk Driving Reduction research. His current research is in College Recovery Programs with a research interest in substance abuse prevention and treatment. For more information please contact me at wkepner@gmail.com	

Dr. Ming Hsiang Tsou	Dr. Ming-Hsiang (Ming) Tsou is a Professor in the Department of Geography, at San Diego State University (SDSU) and the Director of Center for Human Dynamics in the Mobile Age (HDMA). He received a B.S. from National Taiwan University, an M.A. from the State University of New York at Buffalo, and a Ph.D. from the University of Colorado at Boulder, all in Geography. Through the use of GIS, social media analytics, and data science approaches, the Center for Human Dynamics in the Mobile Age at San Diego State University are developing analytic dashboards, GIS maps, and visualization graphs to track and monitor COVID-19 outbreaks and impacts to our regional and local communities in San Diego and California. His research interests are in Human Dynamics, Social Media, Big Data, Visualization, Internet Mapping, Web GIS, Mobile GIS, Cartography, and K-12 GIS education. mtsou@sdsu.edu	
Filippo Bonora	Dr. Filippo Bonora obtained his Ph.D., Masters, and Bachelors degree in Mathematics from the University of Bologna in Bologna, Italy. Dr. Bonora is a former Assistant Project Manager at Alma Mater Studiorum at the University of Bologna.	