Dr. Luque is an Associate Professor in the Department of Mathematics and Statistics at San Diego State University (SDSU). His expertise is in theoretical and computational biophysics, and his research interest is at the interface of physical virology and viral ecology and evolution. He received his Ph.D. in physics from the Universitat of Barcelona in 2011 for his study on the structural, mechanical, and self-assembly properties of viruses. His postdoctoral training was at New York University, where he investigated chromatin using multiscale protein-DNA computational models. He became a faculty at SDSU in 2015, where he joined the interdisciplinary Viral Information Institute and the Computational Science Research Center. Dr. Luque has made significant contributions to the fields of physical virology, viral ecology, and chromatin, including new theoretical frameworks to investigate icosahedral and elongated viruses as well as the life cycle of viruses of microbes based on the physical properties of microbial communities. His interdisciplinary work has resulted in high-impact publications, including Nature, Nature Communications, PNAS, Physical Review Letters, and Nucleic Acids Research. Dr. Luque is the first faculty at SDSU to have received the California Faculty Innovation and Leadership Award. His research is currently funded by the National Science Foundation and the Gordon and Betty Moore Foundation.

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