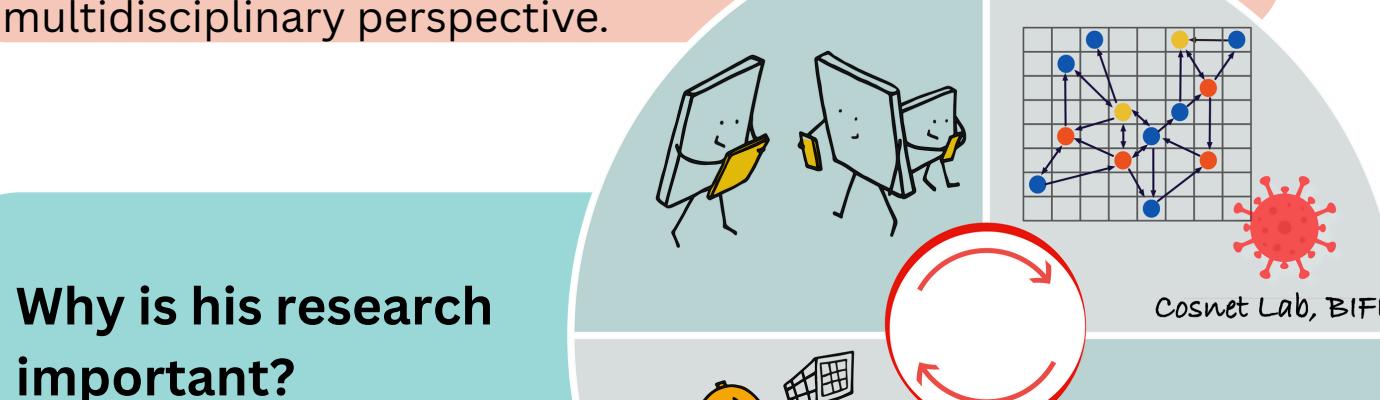# Henrique Ferraz de Arruda

He began his career at the University of São Paulo, where he obtained a CAPES-awarded PhD (2020) on citation networks and machine learning. He has conducted research stays in Brazil, Spain, Italy, and the United States, collaborating with leading groups in complex networks and artificial intelligence. He is currently an ARAID researcher at the BIFI Institute of the University of Zaragoza, analysing social and food data. His profile combines complex systems, data science and high-performance computing in multidisciplinary environments.

Researcher profile

An established researcher (R3) specialising in artificial intelligence and complex systems. He uses network representations and advanced computational approaches to study emergent behaviours. His work integrates machine learning and computational social sciences to analyse the evolution of dynamic systems. He has successfully applied these methods to the study of social networks, knowledge dynamics, scientific citations, and food composition data, addressing complex problems from a multidisciplinary perspective.

Cosnet Lab, BIFI

Why is his research important?

Understanding complex systems and AI allows advanced techniques to be applied to practical challenges. Combining complex networks and computational social sciences to analyse food data has a direct impact on public health. The multidisciplinary approach links fundamental research with practical applications, benefiting science and industry. It enables the development of essential tools and methodologies for informed decision-making in the face of complex phenomena in our digital world.