

Luca Giancardo is an Associate Professor at the Center for Precision Health within McWilliams School of Biomedical Informatics and UTHealth Houston. He has co-appointments at the McGovern Medical School and the Institute for Stroke and Cerebrovascular Diseases at UTHealth Houston. He directs the Giancardo Lab.

He is a computer scientist with extensive experience in image analysis and machine learning. He has worked on developing new machine learning-based methodologies to discover computational biomarkers from patterns in biomedical data such as optical images, magnetic resonance imaging, X-rays, computer tomography, laboratory animal videos or tracking devices. His work has been applied to a number of biomedical applications, such as stroke diagnosis, diabetic retinopathy screening or neurodegenerative disease tracking and successfully translated to industry with two startups based on his methods. He has authored/co-authored more than 80 peer-reviewed articles which were featured by news outlets such as MIT Technology Review, Smithsonian magazine, and others. He has received multiple awards, including the prestigious 100k Singapore Challenge (judging panel composed of Nobel Prize and Millennium Technology Prize winners). One of his projects (neuroQWERTY) has been included in the MIT Museum permanent exhibit “Essential MIT”.

He was awarded competitive grants from NIH (R01), Translational Research Institute for Space Health, foundations, and private companies.

Lab Website:

<https://sbmi.uth.edu/giancalab/>

Publications:

<https://scholar.google.com/citations?user=6x6xdCkAAAAJ&hl=en>