Federico Lecumberry

Born in Montevideo, Uruguay, on July 27th, 1974. He received the B.Sc., M.Sc., and Ph.D. degrees in Electrical Engineering from the Universidad de la República (UdelaR), Uruguay, in 2000, 2006 and 2012 respectively.

Currently holds a position as Associate Professor in Signal Processing and Machine Learning with the Electrical Engineering Department (Instituto de Ingeniería Eléctrica de la Facultad de Ingeniería, IIE-FIng) at Universidad de la República. He is also an Associate Researcher with the Advanced Bioimaging Unit, Institut Pasteur de Montevideo, where he was Principal Investigator and Head of the Signal Processing Laboratory (2014-2018) and Head of the Microscopy Unit (2016-2018). During 2008 and 2009 held a visiting position as a Research Associate with the Department of Electrical and Computer Engineering, University of Minnesota.

He works in the fundamentals and applications of Signal/Image Processing and Machine Learning in different domains including biomedicine and medical imaging, in particular in Fluorescence Microscopy and Cryo-Electron Microscopy, and several industrial applications. He worked on geometric partial differential equations in computer vision applied to object segmentation, disparity computation in stereo images, and image and video codification. His research interests include Signal and Image Processing, Computer Vision, Machine Learning, Biomedicine, Medical Imaging, and Cryo-Electron Microscopy.

From April 2020 to June 2021 he was a member of the Honorary Scientific Advisory Group (GACH) advising the Uruguayan Presidency on issues related to the COVID-19 pandemic. Within the GACH was a member of the main coordinating group of "Models and Data Science" where he coordinated the "Mobility and Apps" team for the analysis of mobility monitoring tools, and contact tracing support, especially through mobile applications. He is a member of the Uruguayan Interdisciplinary Group of Data Analysis of COVID-19 (GUIAD-COVID-19).

Dr. Lecumberry is a member of IEEE Signal Processing Society (Senior Member); National Researchers System in Uruguay (Level II); Uruguayan Biosciences Society; and Uruguayan Society of Microscopy and Imaging. He is also a researcher (Grado 3) of PEDECIBA – Mathematics (Programa de Desarrollo de las Ciencias Básicas).