

A. Ascoli achieved a First Class Honors Master of Science Degree in Electronic Engineering at Università degli Studi Roma Tre in 2001, and a Ph.D. degree in Electronic Engineering at University College Dublin in 2006. He serves the Department of Electronics and Telecommunications of Politecnico di Torino as Associate Professor since 2023. He was previously affiliated for 11 years with the Chair of Fundamentals of Electronics at Dresden University of Technology, where he was conferred the prestigious Habilitation title in Nonlinear Circuit Theory in 2022. He has a strong expertise in the modelling and investigation of nonlinear devices, circuits and systems. In particular, he has developed predictive physics-based compact models for memristor nanodevices from the non-volatile and volatile classes, discovered various peculiar phenomena, occurring in memristive physical media through ad-hoc theoretic investigations, and designed bio-inspired circuits and networks, extending the functionalities of state-of-the-art electrical systems. He is especially admired for pioneering theoretico-experimental studies, involving the design of reaction-diffusion cellular arrays, hosting locally-active threshold switches, for explaining longstanding open questions in science, including Turing's instability problem and Smale's paradox. He was a recipient of the Best Paper Award from the International Journal of Circuit Theory and Applications (IJCTA) in 2007, and of the Darlington Best Paper Award from IEEE Transactions on Circuits and Systems in 2023. He served IEEE CASS as Associate Editor for the Transactions on Circuits and Systems (TCAS-I) over the 2023-2025 three-year term, and as Senior Area Editor for the same Journal over the 2024-2025 two-year time frame. He has been the President of the IEEE Circuits and Systems Society (CASS) Technical Committee (TC) on Cellular Nanoscale Networks and Array Computing (CNNAC) from 2019 to 2021. He has been the President of the IEEE CASS TC on Cellular Nanoscale Networks and Memristor Array Computing (CNN-MAC) from 2021 to 2023. Prof. Ascoli is a member of the Chua Memristor Center (CMC) since its establishment in 2016. He is involved in the newly-approved COST Action proposal European Network on NeuroMorphic Computing (EuroNMC). As DFG Mercator Fellow for the project SFB/TRR404, involving scientists at NaMLab gGmbH, he is currently a Visiting Professor at the Chair of Nanoelectronics of Dresden University of Technology hosted by Prof. Thomas Mikolajick.