


Prof. Carolina Mora Lopez

	Speaker	Carolina Mora Lopez
	Talk Title	Circuit design for high-density cell interfacing
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Brief Biography

Carolina Mora Lopez received her Ph.D. degree in Electrical Engineering in 2012 from the KU Leuven, Belgium, in collaboration with imec, Belgium. From 2012 to 2018, she worked at imec as a researcher and analog designer focused on interfaces for neural-sensing applications. She is currently team leader of the circuits for neural interfaces team in imec. Her research interests include analog and mixed-signal circuit design for sensor, bioelectronics and neural interfaces.

List of Representative Publications

C. M. Lopez *et al.*, "A 16384-electrode 1024-channel multimodal CMOS MEA for high-throughput intracellular action potential measurements and impedance spectroscopy in drug-screening applications," in *2018 IEEE International Solid - State Circuits Conference - (ISSCC)*, 2018, pp. 464–466.

C. M. Lopez *et al.*, "22.7 A 966-electrode neural probe with 384 configurable channels in 0.13 μ m SOI CMOS," *2016 IEEE International Solid-State Circuits Conference (ISSCC)*, San Francisco, CA, 2016, pp. 392-393.

C. M. Lopez *et al.*, "An implantable 455-active-electrode 52-channel CMOS neural probe," *2013 IEEE International Solid-State Circuits Conference Digest of Technical Papers*, San Francisco, CA, 2013, pp. 288-289.

C. Mora Lopez *et al.*, "A Neural Probe With Up to 966 Electrodes and Up to 384 Configurable Channels in 0.13 μm SOI CMOS," in *IEEE Transactions on Biomedical Circuits and Systems*, vol. 11, no. 3, pp. 510-522, June 2017.

C. M. Lopez *et al.*, "A Multimodal CMOS MEA for High-Throughput Intracellular Action Potential Measurements and Impedance Spectroscopy in Drug-Screening Applications," in *IEEE Journal of Solid-State Circuits*, vol. 53, no. 11, pp. 3076-3086, Nov. 2018.