

Dr. Erick Ulin-Avila is currently a Postdoctoral fellow in the Advanced Photonics Research Laboratory at the Technion's faculty of Electrical Engineering. Erick graduated with a Ph.D. in Mechanical Engineering from UC Berkeley in the areas of MEMS, Nanomaterials and Nanophotonics under the supervision of Prof. Xiang Zhang, focusing on plasmonics, metamaterials and graphene-based photonic devices. As a post-doctoral researcher at UC Berkeley, Erick investigated electric field noise from metallic surface-electrode ion microtraps for scalable quantum information processing under the supervision of Prof. Haeffner in the Physics Department. In addition, he worked on the fabrication of two dimensional arrays of nano-josephson junctions based on high-transition temperature ( $T_c$ ) materials for superconducting quantum interference devices under the supervision of Prof. Robert Dynes in the Materials Sciences Division at Lawrence Berkeley National Laboratory. Erick holds minors in Nonlinear Control Systems and Electrodynamics from the Mechanical and Electrical Engineering Departments and M.Sc. in Electrical Engineering with a focus on time-lapsed Scanning Tunneling Microscopy based diffusion studies under the supervision of Prof. Ludwig Bartels in the Chemistry Department at UC Riverside. He holds a B.Sc. in Digital Systems and Control Systems in the Electronics Engineering Department at Universidad Autonoma Metropolitana, Azcapotzalco (UAM-A) in Mexico.