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Ms. Perez-Martinez has authored 6 journal papers, 5 of them as first author. Her Ph.D. dissertation has involved optimizing ionic liquid ion source technology for its application in space propulsion and also for micro and nano fabrication, particularly for focused ion beams.

She has served as program committee member for the Electron, Ion, Photon Beam Technology and Nanofabrication Conference, and has been recipient of the Best Poster Award at the Micro and Nano Engineering Conference in 2010. She has been awarded the Amelia Earhart Fellowship for Women in Aerospace, the Wings Club Scholarship, the Chateaubriand Fellowship and the MIT Ida M. Green Fellowship.