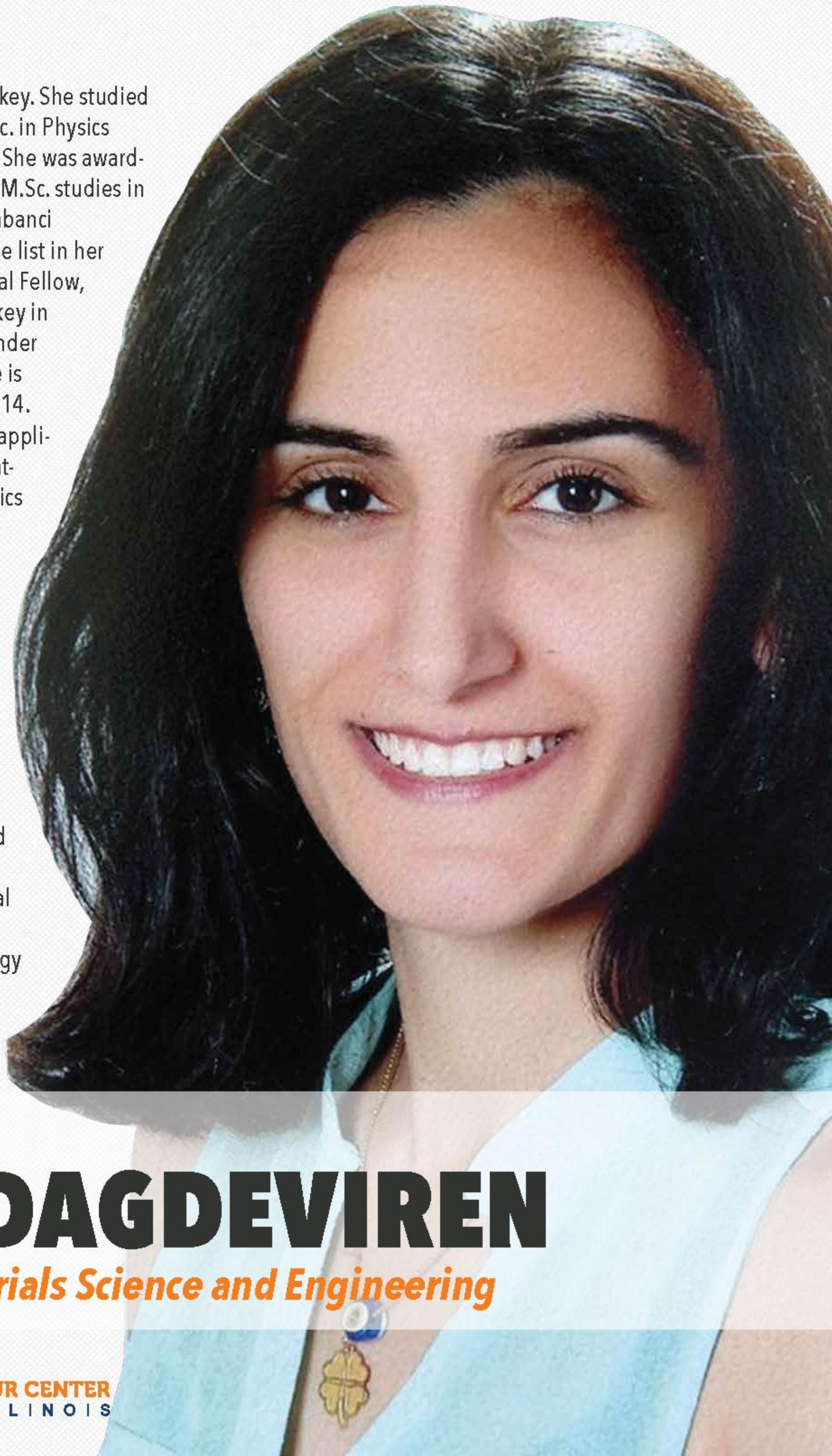




ILLINOIS INNOVATION PRIZE

Canan was born in 1985 in Istanbul, Turkey. She studied solid-state physics and obtained her B.Sc. in Physics Engineering from Hacettepe University. She was awarded with full-scholarship throughout her M.Sc. studies in Materials Science and Engineering at Sabanci University. Dagdeviren was the top of the list in her field to be entitled to a Fulbright Doctoral Fellow, which was given for the first time in Turkey in 2009, and now she pursues her Ph.D. under supervision of Prof. John A. Rogers. She is expected to receive her Ph.D. in July, 2014. The primary focuses of her research are applications of piezoelectric materials and patterning techniques for unusual electronics with an emphasis on bio-integrated systems, such as bio-sensors, actuators, transducers, and mechanical energy harvesters in flexible/stretchable forms. A new class of biocompatible piezoelectric mechanical energy harvesters that are soft and flexible, with low bending stiffness, allowing them to conform to and laminate on soft tissues such as heart, lung, and diaphragm has been recently developed by her. These devices are first of its kind nano-generators that convert mechanical energy from internal organ movements into significant amounts of electric energy to power medical devices such as cardiac pacemakers.



2014 WINNER

CANAN DAGDEVIREN

PhD Candidate, Materials Science and Engineering