

Dr. Ilana Nisky received all her academic degrees in Biomedical Engineering from Ben-Gurion University. After a postdoctoral fellowship in Stanford University as a Marie Curie International Outgoing Fellow, she returned to BGU, and established the Biomedical Robotics Lab. She received the Alon fellowship and Toronto award for excellence in research, and was selected as one of 40 promising young Israelis by TheMarker magazine. Her research interests include human motor control, haptics, robotics, human and machine learning, teleoperation, and robot-assisted surgery. Nisky and her students apply neuroscience theories about the human sensorimotor control, perception, adaptation, learning, and skill acquisition in the development of human-operated medical and surgical robotic systems. They also use robots, haptic devices, and other mechatronic devices as a platform to understand the human sensorimotor system in real-life tasks like surgery, and in virtual tasks like virtual reality games or surgical simulation. This research will improve the quality of treatment for patients, will facilitate better training of surgeons, advance the technology of teleoperation and haptics, and advance our understanding of the brain. Nisky authored more than 40 scientific publications in peer-reviewed journals and conference proceedings, and numerous abstracts in international conferences, for which she received several Best Paper and Best Poster awards. She is an executive committee member of the EuroHaptics Society and a board member of the Israeli Society for Medical and Biological Engineering.