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Dr. Bershad's focus of research is intracranial pressure, non-invasive brain physiology monitoring, and the Visual Impairment Intracranial Pressure syndrome. He has been the Principal or Co-Investigator on several NASA and NSBRI projects related to brain monitoring in Space and analog environments including clinical validation studies with the Vittamed ICP meter, the SPACE-COT study (Studying the Physiological and Anatomical Cerebral Effects of CO<sub>2</sub> and Head Down Tilt), Multispectral imaging in Idiopathic Intracranial Hypertension, and Zero G and ICP (Invasive and Non-invasive ICP measurements in the Astronauts on International Space Station).