

*NSF NANOSCALE SCIENCE AND ENGINEERING GRANTEES CONFERENCE:  
NANO AND AI CONVERGENCE  
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**SESSION 3: AI FOR NANODEVICE DESIGN**

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***Bio:***

Dr. Tetyana Ignatova is an Associate Professor of Nanoscience at the University of North Carolina at Greensboro. She earned her bachelor's and master's degrees in Radiophysics and Electronics from Kharkiv State University in Ukraine, and went on to complete her PhD in Physics at Lehigh University in Bethlehem, PA. Her research focuses on light-matter interactions in low-dimensional materials and nanostructures, as well as the development of innovative platforms for environmental and biosensing technologies. Currently, she is leading a collaborative initiative between the Nanoscience Department and the U.S. Army Combat Capabilities Development Command (DEVCOM) Soldier Center. This partnership is part of the Innovation Collaborative Laboratory for Nanotechnologies to Empower the Future Soldier, a joint effort aimed at advancing cutting-edge technologies for military applications.