



Nicholas Schaper

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ADVISOR/MENTOR: Dr. Kuljanishvili
SPONSOR/GRANT: Dr. Kuljanishvili
PROGRAM START: Fall 2019

BIOGRAPHY

Nicholas graduated in 2019 with a B.S. degree in Physics from Saint Louis University. During his time at Saint Louis University, Nicholas was inducted into the Alpha Sigma Nu, the Jesuit honor society, as well as Alpha Epsilon Delta, the Pre-Health society. Nicholas has received awards for Excellence in Mathematics and the James D. Collins Awards for Academic Excellence from the Physics department. Nicholas was also chosen to present his undergraduate research at the Saint Louis University Senior Symposium and at Argonne National Lab's Annual Users Meeting. In addition to earning his Master's in Engineering Physics, Nicholas is also working for Total Access Urgent Care as a Physician Facilitator. Nicholas plans to attend medical school after earning his master's degree from Saint Louis University.

RESEARCH

Nicholas' research has been primarily focused on the synthesis of carbon and zinc-based nanomaterials and investigating their biomedical applications. Materials such as carbon nanotubes (CNTs), graphene and ZnO nanowires are of interest in many communities for their unique mechanical, electrical, and flexible properties. Nicholas has collaborated with the biomedical engineering department to test the utility of CNTs in polymer hydrogel environments for enhanced neural cell growth.



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