



UNITED STATES  
**COAST GUARD**  
ACADEMY

Science Lecture Series

# Schrödinger Shops at Stop & Shop

**Dr. Rebecca Riley**

*Department of Physics, US Coast Guard Academy*

If you've ever sat in a physics class and thought... "who CARES?!" -- this lecture is for you! Many of our modern technologies are built on the theoretical foundations laid by physicists, like quantum mechanics and general relativity. We will talk about what these theories are, how they upended our understanding of nature, and the development pipeline from theory to technology.

***Tuesday, April 7<sup>th</sup>, 2026***

***2000 - 2100***

***Dimick Auditorium***

***U.S. Coast Guard Academy***

Dr. Rebecca 'Bex' Riley is a theoretical particle physicist and instructor at the US Coast Guard Academy. She earned her PhD from the University of California, Irvine with a dissertation on a hypothetical dark matter particle. Her thesis work was supported by a number of prestigious fellowships, including the National Science Foundation Graduate Research Fellowship, the UC Irvine Chancellor's Fellowship, and an ARCS Foundation Scholarship. Her research focus is on understanding the fundamental nature of the particles and interactions that make up our universe. Dr. Riley is also a private pilot and an EMT.

If you have any questions regarding the event, please contact Dr. Kanani K. M. Lee  
([kanani.km.lee@uscga.edu](mailto:kanani.km.lee@uscga.edu)) for more information.