

Gillian Winters

CONTACT INFORMATION

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Stony Brook University
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<https://sites.google.com/stonybrook.edu/physics-ltc/home>

ACADEMIC POSITIONS

Undergraduate Lecturer	2025 - present
Director, Laser Teaching Center	2025 - present
Department of Physics and Astronomy Stony Brook University	
Adjunct Professor	2016 - 2025
Department of Physics and Astronomy Stony Brook University	

EDUCATION

PhD, Physics, University of Delaware, Newark, DE	1991
MS, Physics, McGill University, Montreal, Canada	1986
BS, Physics, McGill University, Montreal, Canada	1984

TEACHING EXPERIENCE

Stony Brook University Lecturer	Spring semesters 2016 – present
• PHY-570 Introductory Physics Revisited for Teachers	
Smithtown Central School District, Smithtown, NY	2005 – 2025
• Teacher, AP-1 Physics, AP-B Physics, AP-C Physics with Calculus (Mechanics and E&M), Regents Physics	
Sachem Central School District, Holbrook, NY	October 2003 – 2005
• Teacher, Regents Physics, AP-B Physics, Science Research Program	

INDUSTRY EXPERIENCE

Thermo NORAN (formerly NeXray, a division of Veeco) Ronkonkoma, NY	1998-2002
Product Manager, Customer Applications Manager	
ARCO Chemical Co., Newtown Square, PA	1991-1998
Laboratory Supervisor	

PROFESSIONAL AFFILIATIONS

- STEP UP New York Advocate 2024-2025
An NSF-supported initiative to change deep-seated cultural views about
physicists and to inspire young women to pursue physics in college
- NYS Master Teacher Advisory Board 2018 – 2020
- Long Island Physics Teacher Association (LIPTA)
- President 2022 - present
 - Vice President 2011 – 2022
 - LIPTA's membership is over 100 high school physics teachers from
across Long Island
 - Provides biannual teacher development workshops
- QuarkNet lead teacher
- QuarkNet is an outreach program of FermiLab
 - QuarkNet Summer workshop for physics teachers, co-developer 2009 – 2023
 - Particle Physics MasterClass for students (CERN-based) 2012 – 2024

AWARDS/ACHIEVEMENTS

- SCSD Torch Award 2018
Smithtown School district award to recognize teachers who significantly
contribute to the professional development of their colleagues
- NYS Master Teacher 2014 – 2018
Outstanding public school teachers throughout the state who share a
passion for their own STEM learning and for collaborating with colleagues
to inspire the next generation of STEM leaders.
- Paul W. Zitzewitz Award for Excellence in K-12 Physics Teaching 2015
- From the American Association of Physics Teachers (AAPT)
 - Recognizes outstanding achievement in teaching pre-college physics
- BOCES Model School Grant recipient 2013
- BOCES is an educational cooperative of 51 Long Island school districts,
providing educational leadership, instruction and support
- New York State Teacher Certification, Secondary Education
- Physics, General Science: Permanent certification 2009