

Resume

David J. Starling

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EXPERIENCE

- Technical Staff**, MIT Lincoln Laboratory, Lexington, MA February 2022-present
- PI and Co-PI on various quantum communications programs
- Research Scientist**, HyperLight, Cambridge, MA July 2021-February 2022
- Head of R&D for volume products; simulation, design, measurement, packaging
- Associate Professor of Physics**, Pennsylvania State University, Hazleton, PA 2012-2021
- Tenured; principal investigator including research, teaching and service
- Visiting Faculty**, Rochester Institute of Technology, Rochester, NY 2019
- Sabbatical at the Rochester Institute of Technology in nanophotonics

SERVICE AND LEADERSHIP

- Research Peer Reviewer** 2010-present
- Examples: Nature Communications, Physical Review Letters, Physical Review Applied, PRX, PRA, Optics Letters
- Conference Organizing Committees** 2011 - present
- 2020 Photonics for Quantum 2, RIT
 - 2018 Quantum Communication Measurement and Computing, LSU
 - Annual Local and Regional Undergraduate Research Symposiums, PSU
 - 2011 Crossboarder Workshop, UR
- Committees and Service**, The Pennsylvania State University 2012 - present
- Research Committee Chair, Faculty Senate Parliamentarian, Executive Council, Faculty Search Committees, Faculty Affairs Committee
- Research Advisor**, The Pennsylvania State University 2012 - present
- Joint research supervision of 5 graduate student research projects
 - Research supervision of over 20 undergraduate research projects

EDUCATION

- Ph.D. in Physics, University of Rochester, Rochester, NY June 2012
- M.A. in Physics, University of Rochester, Rochester, NY May 2008
- B.S. in Physics and Mathematics, *summa cum laude* May 2006
- State University of New York at Fredonia, Fredonia, NY

ACCOMPLISHMENTS AND AWARDS

- 40+ peer-reviewed research publications and proceedings 2008 - present
- Research citations: 2381 2008 - present
- 12 Invited talks, one invited paper (in *Physics*) 2009 - present
- R&D100 Award 2023
- MIT Lincoln Laboratory's Best Invention Award 2024
- Various Research and Teaching Grants 2012 - present
- Faculty Scholar Award, The Pennsylvania State University 2018
- Butler Technology and Teaching Award, The Pennsylvania State University 2018
- SGA Outstanding Faculty Member of the Year, The Pennsylvania State University 2015

SKILLS

Digital: Lumerical (FDTD, MODE), Python, LabView, C++, Java, MATLAB, Mathematica, CAD (SolidWorks, Inventor, KLayout), L^AT_EX, Blender

Analog: optics, cryogenics, electronics, 3D printing, laser cutting/engraving, machining