Jerome C. Licini

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Education

1976 – 1980 Princeton University, Princeton NJ.
Bachelor of Arts of Physics, *magna cum laude*, June 1980.

1980 - 1986 Massachusetts Institute of Technology, Cambridge, MA.
Ph.D. degree in Condensed Matter Physics, February 1987.

1987 – Continuing education via educational research seminars (including "What the Best Teachers Teach" and Online Learning Consortium workshops).

Employment

1977 – 1987 Research and Supervision experience at Princeton Plasma Physics Laboratory, IBM, AT&T Bell Laboratories and M.I.T.

1987 – 1993 Assistant Professor, Lehigh University, Bethlehem, PA.
1993 - Associate Professor, Lehigh University, Bethlehem, PA.

Initiated and carried out $300,000 research program to investigate ultra-small semiconductor devices in silicon, gallium arsenide, and carbon nanotubes.

Initiated Physics Education Research program. Supervised multiple Physics Education Research student projects.

Excellent communication skills (highest evaluations for both lectures and small-groups). Academic advising mentor.

1987 - Independent Consultant.

Technology companies – Two US patents granted, thirteen additional pending US and granted international patents.

Educational initiatives – at Lehigh and other universities.

Legal consulting / expert witness – Track record of 100% favorable judgments.

Publications and Creative Activities

Contributing Editor for Instructor's Solution Manual to "Physics for Scientists and Engineers," Fifth Edition, by Paul A. Tipler, W. H. Freeman and Company, New York, 2004 (ISBN 0-7167-9839-5).

Eleven refereed journal publications, one published report, two refereed conference proceedings, eighteen chaired session presentations. Invited presenter spanning Summer School in Physics (St. Andrews, Scotland, 1986) and Electrochemical Society Meeting (Montreal, Canada, 2011).

Competitively awarded research grants from the National Science Foundation and Lehigh University Faculty Research Grant.

Invited to present technical background for Nobel Prize winner to the University community.

ITaLLIC Seminar – Member of working group discussing means of improving large lecture courses. Submitted proposal and was awarded assistance to add audience response clickers to Physics 11.

Lehigh University Panel Reviewer for Faculty Innovation Grants and NSF Major Research Instrumentation Program.

Courses Taught

Physics 11 – Introductory Physics I (Mechanics)
(more than 20 times, to more than 5,000 students)
Physics 21 – Introductory Physics II (E&M)
(more than 10 times, to more than 2,000 students)
Physics 22 – Introductory Physics II Laboratory (E&M)
(more than 20 times, to more than 5,000 students)
Physics 95, 96 – Advanced Topics in Introductory Physics (online)
Physics 213 – Undergraduate Electricity and Magnetism
Physics 215 – Classical Mechanics I
Physics 362 – Atomic and Molecular Structure
Physics 397 – Topics in Condensed Matter Physics
Physics 422 – Graduate Electricity and Magnetism
Arts 001 – Choices and Decisions (Academic advising workshops)