

Robert Barretto

Permanent Address

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Campus Address

4031 Fair Oaks Ave.
Menlo Park, CA 94025

Education

9/03 – present Stanford University – Applied Physics PhD student
8/98 – 5/03 University of Illinois at Urbana-Champaign
B.S. Engineering Physics, B.S. Liberal Arts and Sciences (majors in Mathematics and Chemistry), GPA = 3.87/4.00

Objective: to achieve an interdisciplinary approach to understanding biological systems

Work Experience

6/96 – 8/98 Managed all account receivables for Lourdes D. Floro, M.D., pediatrics
1/00 – 12/02 Physics Department, UIUC
Teaching assistant for introductory physics sequence (fall/spring)

Research Activity

1/01 – 5/01 Investigating DNA topology and knot theory as part of an honors project under Prof. Bruce Reznick (mathematics)
3/01 – 8/01 Design and construction of a magnetic tweezer apparatus for DNA micromanipulation
8/01 – 5/03 Use of magnetic tweezers, microfluidics, and surface binding assays under Prof. Taekjip Ha (physics)
8/02 – 5/03 Construction and modification of an optical tweezer apparatus for viscoelastic measurements and colloidal studies under Prof. Sahraoui Chaieb (theoretical mechanics)
9/03 – present PhD student under Prof. Mark Schnitzer

Academic Honors

2003 Hertz Foundation Finalist
The Center for Advanced Study 2001 John Bardeen Scholar - College of Engineering UIUC
Member, Tau Beta Pi
2001 Colgate-Palmolive Fellow
Member, American Chemical Society

Other Information

Former member, Undergraduate Studies Committee, Dept. of Physics UIUC
Former member, College of Engineering Honors Advisory Council UIUC