

Isabela Vrinceanu

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Teaching Experience

Lab Coordinator

August 2015-Present

Department of Physics, Texas Southern University

Developing new lab topics, manuals and experiment. Teaching several labs with impact of more than 100 students.

Adjunct Professor

January 2008-August 2015

Department of Physics, Texas Southern University

Taught College and University Physics Labs, or Advanced Labs: Phys 116, Phys 213, Phys 214, Phys 216, Phys 218, Phys 336. Helped over 250 students each semester to complete the experiments, interpret data and understand basic cores in Physics. Respond to challenging teaching Physics impose to students. Teaching classes: Principle of Physical Science: Phys 101, College Physics I and II: Phys 237 and Phys 238. Earned excellent evaluations from my students and receive numerous positive comments.

Graduate Teaching Assistant

August 1999-December 1999

Mechanical Engineering School, Georgia Institute of Technology

Recitations and labs in the field of Mechanical Behavior of Materials. Also serving as a tutor.

Education

PhD in Mechanical Engineering Georgia Institute of Technology

1999-2002

MS in Mechanical Engineering Georgia Institute of Technology

1999-2000

Engineering Diploma in Precision Mechanics Politehnica University of Bucharest, Romania

1988-1993

Professional Work Experience

Post-Doctorate Associate

2003-2004

Department of Material Science and Engineering, Massachusetts Institute of Technology

Computer simulation of microstructure evolution and residual martensitic stress formation of polycrystalline materials.

Graduate Research Assistant
Manufacturing Research Center, Georgia Institute of Technology

1999-200

Interferometric measurements of residual stresses in single crystal silicon wafers and wafers.
Data acquisition, digital signal and image processing, analytical and numerical solving of several mechanical problems. Finite element analysis and computer simulation of an initially stressed/unstressed silicon wafer.

Research Engineer
Laser Department, Institute of Atomic Physics, Bucharest, Romania

1993-1997

Work on design, specification, assembly, integration, data gathering and documentation of laser equipments used in medicine and industry. Research on the effect of laser radiation on a diabetic leg patient. Use laser equipment to determine the behavior of a loaded and un-loaded bridge.

Skills

Programming languages: Mathematica, Fortran, C, Visual Basic.

Engineering Packages: ANSYS, AutoCAD, Mat Lab, ProE,