Curriculum Vitae

Gerassimos G. Petratos

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Education

1988: Ph.D. in Physics, The American University, Washington, D.C.
Ph.D. Thesis: *Quasielastic Electron-Deuteron Scattering at 180° at Large Momentum Transfers* (SLAC fixed target experiment). Adviser: Prof. Raymond G. Arnold.
1983: M.S. in Physics, The American University, Washington, D.C.
1980: Physics Diploma, University of Athens, Greece.
Diploma Thesis: *Design, Construction and Operation of a High Pressure Gas Threshold Čerenkov Detector*. Adviser: Prof. Leonidas K. Resvanis.

Employment

1/2004-present: Professor of Physics and Chair, Kent State University, Kent, Ohio.
9/2000-1/2004: Professor of Physics, Kent State University, Kent, Ohio.
Summer 1994: Visiting Scientist, SLAC, Stanford University, Stanford, California.
1/1994-8/2000: Associate Professor of Physics, Kent State University, Kent, Ohio.
10/1992-1/1994: Staff Physicist, SLAC, Stanford University, Stanford, California.
9/1990-9/1992: Post-doctoral Research Associate, SLAC, Stanford University, Stanford, California.
9/1988-8/1990: Post-doctoral Research Associate, The University of Rochester, Rochester, New York.
9/1984-8/1988: Pre-doctoral Research Associate, The American University, Washington, D.C.
8/1980-8/1984: Graduate Research Assistant, The American University, Washington, D.C.

Research Experience

Two decades of research on the structure of nucleons and nuclei by scattering electron beams from unpolarized and polarized nuclear targets at the Stanford Linear Accelerator Center (SLAC) and Jefferson Lab (JLab). Technical knowledge of subatomic physics experimental apparatus (particle detectors, magnets, cryogenic targets, radiation shielding and detector signal processing), and of particle beam transport and associated instrumentation. Professional experience includes design, installation and calibration of complex magnetic spectrometer particle detection systems, and management of an experimental facility and its engineering and technical staff (End Station A, SLAC). Project Director of National Science Foundation (NSF) Medium Energy Physics Grants since 1995. NSF Grants have supported three postdoctoral fellows and three doctoral students. Has directed two doctoral dissertations. Has made major contributions, in various capacities (spokesperson, project manager or leading collaborator), to numerous nuclear and particle physics experimental projects at SLAC and JLab. Journal referee for *Physical Review Letters* and *Physical Review*. Proposal referee for the National Science Foundation. Has been member of the organizing committes of two domestic workshops and two international conferences.

Awards and Grants

- Project Director of *Structure of the Neutron and Few-Body Nuclear Systems with Electron Scattering*, NSF grant award PHY-0355181 ($321,000 awarded for period 6/1/04-5/31/07).
- Project Director of *Structure of Neutron and Few-Body Nuclear Systems with Electron Scattering*, NSF grant award PHY-0072384 ($345,000 awarded for period 7/15/00-5/31/04).
- Project Director of *Structure of Neutron and Few-Body Nuclear Systems with Electron Scattering*, NSF grant award PHY-9722640 ($294,000 awarded for period 6/1/97-5/31/00).
- Project Director of *Structure of the Neutron and Few-Body Nuclear Systems with Electron Scattering*, NSF grant award PHY-9511192 ($199,000 awarded for period 8/1/95-7/31/97).
- Co-Principal Investigator of *Search for Quark-Gluon Plasma in Relativistic Nuclear Collisions*, Kent State University Research Challenge grant award ($64,000 awarded for period 7/1/97-6/30/99).
- Recipient of Kent State University Research Council's Research and Creative Activity Appointment for academic year 1997-1998.
- Recipient of Kent State University Research Council's 1995 Summer Research and Creative Activity Appointment.

University Teaching Experience

Spring, Fall 2003:	Physics with Calculus I Laboratory
Fall 2002, 2003:	Physics with Calculus I
Fall 2001:	Electromagnetic Theory I
Fall 2001:	Mechanics I
Fall 1994-1996:	Modern Physics
Spring 1995,1996; Fall 1996-2000:	Introduction to Nuclear Physics
Spring 1999-2001:	General College Physics I
Spring 1995:	Advanced Topics: Electron-Nucleus Scattering
Summer 1996,1997:	Statistical Analysis of Experimental Data

Average student evaluation for courses taught: overall rating for "instructor ability": 3.5/4.0; overall rating for "course effectiveness": 3.3/4.0.

Conference / Workshop / Colloquium Talks

- 29 Invited talks at Domestic and International Conferences, Workshops or Symposia.
- 9 Contributed talks at Domestic and International Conferences, Workshops or Symposia.
- 29 Invited presentations at Universities or Research Centers.

Publications

- 57 publications in refereed journals (and 4 submitted), which have received to date 3,800 citations.
- 180 publications in conference proceedings.
- 12 unpublished reports