

Professional Vita

Name: Michael A. Morgan

Title: Associate Professor, Seattle University

Dept: Physics

Education: University of Washington, Seattle, WA.

Attended: 1971 - 1976, 1977 - 1984

Degrees attained: Ph.D. Physics, 1984

M.S. Physics, 1980

B.S. Electrical Engineering, 1975

Professional Experience:

1990 - Present	Associate Professor of Physics; Seattle University, Seattle
2001 – 2002	Sabbatical: Open University, Milton Keynes, UK
1998 – 2001	Chair of Physics Department, Seattle University
1994 - 1995	Sabbatical: University of Bristol, Bristol, UK
1985 - 1990	Assistant Professor of Physics; Seattle University, Seattle
1985 - Present	Visiting Professor of Physics (summers); University of Washington, Seattle
1984 - 1985	Visiting Assistant Professor of Physics; Seattle University, Seattle
1983	Teaching Assistant for honors physics; Physics Department, University of Washington, Seattle
1979 - 1984	Research Assistant in nuclear theory; Institute for Nuclear Theory, Physics Department, University of Washington, Seattle
1978 - 1979	Teaching Assistant for freshman physics laboratory; Physics Department, University of Washington, Seattle

- 1977 - 1978 Research Assistant in non-destructive testing of ceramic materials using lasers;
Electrical Engineering Department, University of Washington, Seattle
- 1977 Associate Engineer in the Communications, Navigation, and Electromagnetics
staff group at the Boeing Commercial Airplane Company; Boeing Developmental
Center, Seattle
- 1972 - 1976 Undergraduate Research Assistant, Computing Division, University of Washington
Aeronautical Laboratories; University of Washington, Seattle

Publications:

1. Current Algebra and the Cloudy-Bag Model, *Physical Review D* 33, 817(1986) with G. A. Miller and A. W. Thomas
2. The Neutron Electric Dipole Moment in the Cloudy-Bag Model, *Physics Letters B* 179, 379 (1986) with G. A. Miller
3. Geometric Angle for Rotated Rotators, and the Hannay Angle of the World, *Nonlinearity* 9, 787(1996) with M. V. Berry
4. Disagreement Between Shock and Static Temperature Data: Calculation of Argon Optical Transmittance in Laser-Heated Diamond Anvil Cells, in *Shock Compression of Condensed Matter - 1999*, M. D. Furnish, ed., American Institute of Physics Press, NY (2000) with D. A. Boness, J. M. Brown, J. Madamba
5. Nonadiabatic Transitions in Multilevel Systems, *Physical Review A* 61, 062104 (2000) with M. Wilkinson

Unpublished works:

1. Minimum Mass for Gravitational Collapse (with M. Wilkinson)
2. Variational Mechanics: an undergraduate textbook on abstract mechanics
3. The Combinatorial Approach to the 2-d Ising Model:

Graphs and Paths on a Square Lattice

4. Dynamical Systems Software for MATLAB
5. Levitron simulation with viscous damping
6. Motion of the Levitron in an Adiabatic Potential
7. Numerical Symplectic Integration of Hamiltonian Dynamical Systems
8. Numerical Studies of the Quasiperiodic Route to Chaos in Coupled VdP Oscillators.

Professional Associations:

1984 - Present	American Physical Society
1984 - Present	American Association of Physics Teachers
2005 – Present	American Association for the Advancement of Science