Sarah E. Hewitt

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Objective

Obtain a position that requires the application of a computational and analytic skills set to challenging, relevant problems.

Education

Ph. D.	Applied Mathematics (2004): University of Washington, Seattle, WA Thesis: *Dynamics and Stability of Periodic Spatial Patterns in the Optical Parametric Oscillator* Advisor: J. Nathan Kutz
M. S.	Applied Mathematics (2001): University of Washington, Seattle, WA
B. A.	Mathematics and Physics (1999): Hamline University, St. Paul, MN

Professional Skills

Accomplished instructor, public speaker, and technical writer, having participated in professional conferences as a presenter in a variety of formats.

Experienced in both individual and cooperative research environments in both supervisory and subordinate roles.

Highly capable in programming languages (C, C++, Fortran) and scripting environments (Matlab, Maple and Mathematica) on many operating platforms (Windows, LINUX/UNIX and Macintosh).

Recent Work Experience

Research Assistant in Applied Mathematics (2000 - present)
University of Washington, Seattle, WA.
Topics: Nonlinear optics, Numerical methods
Supervisors: J. Nathan Kutz, Loyce Adams.

Predoctoral Instructor in Applied Mathematics (Winter 2004)
University of Washington, Seattle, WA.
Course: AMATH 351, *Introduction to Differential Equations and Their Applications*
Supervisor: Ka K. Tung, chair, Department of Applied Mathematics.

Teaching Assistant in Mathematics/Applied Mathematics(1999 - 2002)
University of Washington, Seattle, WA.
Course Topics: Algebra and Calculus Applied to Business, Complex Analysis, Ordinary and Partial Differential Equations, Mathematical Modeling.

Relevant Courses

Scientific Computing, Numerical Analysis, Probability and Statistics, Ordinary and Partial Differential Equations, Asymptotic Analysis, Perturbation Methods and Complex Variables.

Honors and Professional Activities

2004, 2001:	Boeing Award for Excellence in Applied Mathematics
2002-present:	National Science Foundation VIGRE Fellowship
2003-present:	Member of Optical Society of America (OSA)
2001-present:	Member of Society of Industrial and Applied Mathematics (SIAM)
2003-2004:	Secretary, U of WA SIAM student chapter
1999-present:	Member of Phi Beta Kappa

References available upon request.