

Daniel Nagle

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Objective: To contribute my teaching skills to those who want to learn and my technical skills to those who want my services.

Overview: Recent George Mason University PhD in Computational Science Program, HPC Emphasis. Previously employed as an independent consultant providing technical, programming and educational services to the HPC community. Engaged by Government and Commercial concerns. Duties included pre- and post-sales support, applications support, site management, custom software development and application parallelization. Provided training in parallelization and vectorization of applications.

Education and Certification:

Doctor of Philosophy in Computational Science, August 2011

- Coursework completed Spring 2009
- Dissertation Topic: Optimization of Traffic Signal Timing by Local Computation

Web Programming Certificate, NVCC, 1996

- HTML, Javascript, Java I & II, C/C++, CGI w/ Perl, Webmaster, VRML

Master of Science in Physics, Virginia Tech, August, 1980

Bachelor of Science in Physics, Virginia Tech, June, 1975

Professional Work:

- **Consultant** to the HPC community, August 1994 - Present
- **Field Analyst** for Kendall Square Research Corporation, June 1992 - July 1994
- **Senior Systems Analyst**, Myrias Computer Corporation, January 1990 - October, 1990
- **Senior Systems Analyst**, Evans & Sutherland Computer Division May 1989 - January 1990
- **Analyst-in-Charge**, Cray Research, Inc., December 1980 May 1989

Relevant Skills:

- **Technical:** Parallel Programming (Fortran/C/C++/UPC) of computers, numerical applications or system / administrative level, Windows, Mac OS-X, Linux, or other Unix OS and Microsoft Office Suite or other office suite.
- **Technical Training:** Technical presentation to audiences of high school level through experienced researcher, using self-made or provided materials.
- **Writing:** Writing technical articles to explain techniques and methods to a wide range of readers, and reviews of books on current technical topics

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Professional Accomplishments:

- Conceived, produced and taught workshops on using the Cray-1, Cray XMP, Cray-2, Cray YMP, Cray T3D/E, ESCD ES-1, Myrias SPS-2, and KSR KSR-1 computers
- Facilitated modernization of numerical applications at a DoD HPC center, conceived and produced a series of Technical Notes on topics in modern numerical programming
- Oversaw migration of programs to parallel processors at a DoD HPC center, conceived, produced and taught workshops on parallelizing numerical computer applications
- Produced the *fthreads* library to provide high-level Fortran access to Win32 threading primitives
- Developed and produced my business web site, <http://www.danielnagle.com>

Professional Organizations:

- **American Association for the Advancement of Science**
- **American Physical Society**
- **PL22.3 & WG5** (Fortran Standardization)
- **WG23** (Programming Language Vulnerabilities)

Publications:

- Nagle, Dan. Book Review of The Art of Concurrency. *Scientific Programming*. **17** (2009), pp. 343-345
- Nagle, Dan. Book Review of Python for Software Design. *Scientific Programming*. **17** (2009), pp. 279-282
- Nagle, Dan. Book Review of MPI - The Complete Reference, V1 & V2. *Scientific Programming*. **13** (2005), pp. 57-60
- Nagle, Dan. Book Review of High Performance Linux Clusters. *Scientific Programming*. **13** (2005), pp. 173-175
- Nagle, Dan. Book Review of Industrial Strength Parallel Computing: Programming Massively Parallel Processors. *Scientific Programming*. **12** (2004), pp. 57-59
- Nagle, Dan. Whither Fortran. *ACM Fortran Forum*. **21**(1) Apr. 2002
- Nagle, Dan. The Fortran 2000 Standard. *Dr. Dobb's Journal*. **#333** Feb. 2002
- Nagle, Dan. fthreads for Visual Fortran. *Dr. Dobb's Journal*. **#326** Jul. 2001
- Nagle, Dan. An Implementation of coco. *ACM Fortran Forum*. **20**(1) Apr. 2001
- Nagle, Dan. The Portability Project. *ACM Fortran Forum*. **18**(2) Apr. 1999