JORDAN PHILIP LEFEBVRE

Oak Ridge National Laboratory
P.O. Box 2008, Bldg. 5700
Oak Ridge, TN 37831-6170
(865) 241-8062
lefebvrejp@oml.gov

Education

May 2009 **University of Tennessee -** Knoxville
Master of Computer Science
Current GPA: 3.83/4.0

Fall 2007 **University of Tennessee -** Knoxville
Bachelor of Science, Computer Science
Overall GPA: 3.79/4.0 Magna cum Laude

Work Experience

04/2010-Present Oak Ridge National Laboratory, Reactor and Nuclear Systems Division, Design, Safety and Simulation Integration Group, SCALE Code System, **Research and Development Staff**

Responsibilities include:

- SCALE code manager
- GForge Advanced Server administrator
- Continued Research Associate responsibilities
- Programming languages include C, C++, CMake, Fortran, Java, PHP, JavaScript, AJAX, ANT, XHTML, XML, Postgre SQL.

05/2009-04/2010 **Oak Ridge National Laboratory, Post Master Research Associate**

Responsibilities included:

- Working with SCALE code managers to maintain and enhance existing tools used to input and visualize data to radiation transport codes
- Development and maintenance of Fallout Analysis Tools and Fallout Planning Tools
- Development of Yield Prediction Software, Nuclear Fallout Data Backbone, and Nuclear Cloud Rise Visualization Software
- Programming languages include Java, PHP, JavaScript, AJAX, ANT, XHTML, XML, PostgreSQL, Fortran

05/2008-05/2009 **University of Tennessee Knoxville, Graduate Research Assistant**

Responsibilities included:

- Conception and development of GrAPPA, Graph Algorithms Pipeline for Pathway Analysis
- Working with a Computational Biologist research team at ORNL to obtain requirements for constructing remote access methods for their computational resources

- Development of graphical user interface for remote access methods
- Programming languages include PHP, MySQL, JavaScript, AJAX, Java, XHTML, and C

05/2008-08/2008 Radio Systems Corporation Knoxville, Web Developer
Responsibilities included:

- Web site search engine optimization (SEO)
- Communication with Strategic Business Units for web content deployment
- Maintenance and development of an international web site
- Programming languages included PHP, MySQL, and XHTML

08/2007-07/2008 Daxor Corporation, Software Engineering Consultant
Responsibilities included software, and web site consultation for FDA regulated nuclear medicine instrumentation suite. Programming languages included C# .Net, ASP, and Visual Basic.

01/2007-12/2007 University of Tennessee Knoxville, Computer Science Teaching Assistant
Responsibilities included instructing students in scripting languages. (PHP, JavaScript, Python, XHTML, XML, etc.)

Publications

M. Monterial, V. J. Jodoin, J. P. Lefebvre, D. E. Peplow, and D. A. Hooper, "Automating the Coupling of ORIGEN with GADRAS via the Fallout Analysis Tool for National Technical Nuclear Forensics," *Proc. INMM 53rd Annual Meeting*, Orlando, FL, July 2012.

B. T. Rearden, L. M. Petrie, D. E. Peplow, M. A. Jessee, D. Wiarda, M. L. Williams, R. A. Lefebvre, J. P. Lefebvre, I. C. Gauld, and S. Goluoglu, "Enhancements in SCALE 6.1," *Proc. PHYSOR 2012 – Advances in Reactor Physics – Linking Research, Industry, and Education*, Knoxville, Tenn., April 15-20, 2012, on CD-ROM, American Nuclear Society, LaGrange Park, IL (2012).

M. W. Francis, V. J. Jodoin, and J. P. Lefebvre, *Study on the Ability to Predict Yield from the Stabilized Height of a Nuclear Cloud*, ORNL/TM-2010/209, Oak Ridge National Laboratory, Oak Ridge, Tenn., October 2011.

B. T. Rearden, L. M. Petrie, D. E. Peplow, M. A. Jessee, D. Wiarda, M. L. Williams, R. A. Lefebvre, J. P. Lefebvre, I. C. Gauld, and S. Goluoglu, "SCALE 6.1 Enhancements for Nuclear Criticality Safety," *Proc. ICNC 2011*, Edinburgh, U.K., September 19-22, 2011.

V. J. Jodoin, R. W. Lee, D. E. Peplow, and J. P. Lefebvre, "Application of the ORIGEN Fallout Analysis Tool and the DELFIC Fallout Planning Tool to National Technical Nuclear Forensics," *Proc. ANS EPRRSD - 13th Robotics & Remote Systems for Hazardous Environments • 11th Emergency Preparedness & Response*, Knoxville, TN, August 7-10, 2011.

V. J. Jodoin, R. W. Lee, D. E. Peplow, and J. P. Lefebvre, "Application of the DELFIC Fallout Planning Tool and the ORIGEN Fallout Analysis Tool to National Technical Nuclear Forensics (NTNF)," *Proc. 3rd International Joint Topical Meeting on Emergency Preparedness & Response Robotics & Remote Systems*, Knoxville, TN, August 7-10, 2011.

V. Jodoin, R. Lee, D. Peplow, and J. Lefebvre, "Application of the Oak Ridge Isotope Generation Code and the Defense Land Fallout Interpretive Code to National Technical Nuclear Forensics," *Proc. 56th Annual Meeting of the Health Physics Society*, West Palm Beach, FL, June 26-30, 2011.

M. W. Francis, V. J. Jodoin, and J. P. Lefebvre, *Study on the Ability to Predict Yield from the Stabilized Height of a Nuclear Cloud*, ORNL/TM-2010/209, Oak Ridge National Laboratory, Oak Ridge, Tenn., January 2011.

V. Jodoin, R. Lee, D. Peplow, and J. Lefebvre, "Application of the DELFIC Fallout Planning Tool and ORIGEN Fallout Analysis Tool to National Technical Nuclear Forensics (NTNF)" *Proc. 5th Joint DoD/DOE Nuclear Survivability/Weapon Effects Modeling & Simulation Workshop*, December 2010.