DAVID A. HOOPER

Personal Data

Place and Date of Birth:	Billings, Montana 08 October 1976				
Address:	1363 Shepard St, Knoxville, TN 37917				
Phone:	307-262-9841				
email:	david.a.hooper@gmail.com				
Work Experience					

OCT 2012 - CURRENT	Staff Scientist at OAK RIDGE NATIONAL LABORATORY Oak Ridge, TN Nuclear Forensics Modelina and Analysis
	See "Notable Projects" below.
OCT 2011 - SEP 2012	Postdoctorate at Оак Ridge National Laboratory Oak Ridge, TN
	Nuclear Forensics Modeling and Analysis
	Developed models for actinide fractionation and particle attachment for post-nuclear detonation fallout modeling.
Ост 2005 - Аид 2006	Drafter at EPIC Engineering
	Charleston, South Carolina
	Mechanical drafting for HVAC and plumbing designs for build- ings
	Drafted AutoCAD designs for commercial building mechanical systems.
Sep 2001 - Sep 2005	Active Duty Navy Officer
	Instructor at the Nuclear Power School
	Taught courses relevant to Navy nuclear propulsion in math, physics, chemistry, metallurgy, and radiology to enlisted and officer students.
	Class Director for roughly 50 junior officers, 2 Captains, and 5 civilians.
	Honorable Discharge as a Lieutenant

INTERNSHIPS

Aug 2011 - Oct 2011	at OAK RIDGE NATIONAL LABORATORY Oak Ridge, TN Transitional employment between PhD graduation and start of post-doctoral work.
May 2010 - Aug 2010	at OAK RIDGE NATIONAL LABORATORY Oak Ridge, TN Maintained and operated the Mock Feed and Withdrawal Fa- cility to generate data for development of enrichment moni- toring methodologies.
May 2008 - Dec 2008	at OAK RIDGE NATIONAL LABORATORY Oak Ridge, TN Updated the DELFIC fallout modeling code to compliance with ENDF-B/VII standards.

August 2011	PhD in NUCLEAR ENGINEERING, University of Tennessee , Knoxville, TN Dissertation: "Development of a Prognostic Method for the Production of Undeclared Enriched Uranium" Advisor: Dr. J Wesley HINES
August 2011	MS in STATISTICS, University of Tennessee , Knoxville, TN Companion degree earned in conjunction with PhD Statistics Advisor: Dr. Hamparsum Bozdogan
August 2008	MS in NUCLEAR ENGINEERING, University of Tennessee , Knoxville, TN Thesis: "Cavitation of Mercury in a Centrifugal Pump" Advisor: Dr. Art RUGGLES
May 2001	BS in Mechanical Engineering, University of Wyoming , Laramie, WY

COMPUTER SKILLS

Proficient Languages:	Fortran, R, Bash, ĽT _E X, Slurm
Intermediate Languages:	C, Python
Proficient Architectures:	WINDOWS, MACOS, LINUX (incl. clusters)

NOTABLE PROJECTS IN CURRENT POSITION

DELFIC:	Lead	develope	er for	the	DEfense	Land	Fallout	Inter	pretive	Code
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- : Research and develop physics for fallout formation and transport.
- : Develop integrated software toolsets for fallout prediction and analysis.
- NMIP:Member of the Statistical Working Group of the Nuclear Materials:Information Program
- NTNF: Develop software tools and participate in the working groups for the : <u>National Technical Nuclear Forensics program</u>.

INTERESTS AND ACTIVITIES

Nuclear Forensics and Consequence Management,
Modeling and Simulation
Information Theory, Bayesian Inference
Curling, Handymanship