Kathryn D. Huff

Contact Information

Blue Waters Assistant Professor
University of Illinois, Urbana-Champaign
Nuclear, Plasma, and Radiological Engineering
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PhD **University of Wisconsin - Madison**, Nuclear Engineering **Aug 2008 – Aug 2013**

BA **University of Chicago**, Physics **Aug 2004 – Jun 2008**

Research Experience

University of Illinois at Urbana-Champaign, Urbana, IL
Assistant Professor, Nuclear Plasma and Radiological Engineering **Aug 2016 – Present**
Blue Waters Asst. Prof., National Center for Supercomputing Applications **Aug 2016 – Present**

University of California - Berkeley, NE Dept., Berkeley, CA
Postdoctoral Scholar, Nuclear Science and Security Consortium **Sep 2013 – Jul 2016**
Data Science Fellow, Berkeley Institute for Data Science **Aug 2014 – Jul 2016**

Argonne National Laboratory, Argonne, IL **Jun 2011 – Aug 2013**
Laboratory Graduate Research Appointee, Used Fuel Disposition Campaign

University of Wisconsin - Madison, NEEP Dept., Madison, WI **Jun 2008 – Aug 2013**
Graduate Research Assistant, Computational Nuclear Engineering Research Group

Idaho National Laboratory, Idaho Falls, ID **Jun – Aug 2010**
Graduate Research Assistant, Systems Analysis Campaign

Kavli Institute For Cosmological Physics, Chicago, IL **Jan 2005 – Jun 2008**
Research Assistant, Laboratory for Astrophysics and Space Research

Universidad de Chile, Physics Dept., Santiago, Chile **Jun – Sep 2006**
Research Assistant, Chicago-Chile Research Exchange Program

Los Alamos Neutron Science Center, Los Alamos, NM **Jun – Sep 2004**
Research Assistant, LANSCE-3 **May – Aug 2003**

Recent Honors and Awards

American Nuclear Society, Oestmann Professional Women's Achievement Award **2017**
American Nuclear Society, Young Member Excellence Award **2016**
Data Science Fellowship, Berkeley Institute for Data Science, UC Berkeley **2014–2016**
Nuclear Science and Security Consortium Postdoctoral Fellowship, UC Berkeley **2013–2016**

Books

[1] Scopatz, A., **Huff, K.**. "Effective Computation in Physics: Field Guide to Research in Python" O'Reilly Media. 2015. `shop.oreilly.com/product/0636920033424.do`.

Book Chapters

[2] **Huff, K.**. "Case Study: Cyclus Project," and "Lessons Learned" in The Practice of Reproducible Research, 1st ed., Justin Kitzes, Fatma Imamoglu, and Daniel Turek, Eds. University of California, Berkeley: University of California Press. 2017.

Keynotes

SciPy 2017, Scientific Python Conference, Austin, TX. **Jul 12, 2017**
PyCon 2017, Portland, OR. **May 19, 2017**
PyData 2016, Chicago, IL. **Aug 27, 2016**
SuperComputing 2015, Python in High Performance Computing workshop. **Nov 15, 2015**

Professional Service

Technical Program Committee, IHLRWM Conference **2017**
Chair, Fuel Cycle & Waste Management Division, ANS **2016–2017**
Vice Chair, Fuel Cycle & Waste Management Division, ANS **2015–2016**
Chair, Steering Committee, Software Carpentry Foundation **2014–2015**
Secretary–Treasurer, Fuel Cycle & Waste Management Division, ANS **2013–2015**
Secretary, Young Members Group, ANS **2013–2014**