WENDI SAPP

Portfolio: WendiSapp.com/portfolio

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WendiSapp.com

SELECTED TECHNICAL SKILLS

Languages/Tools
- Unix/Linux, Markdown, Git, HTML, Java
- OpenStack, Globus, AWS EC2, Scality S3, VPN

Software
- MS Office Suite
- Inkscape (vector graphics)

Content Management Systems
- Github Pages & Wiki
- GitLab & GitBook
- WordPress

Operating Systems
- Windows XP/7/8/10
- Linux Ubuntu/CentOS
- MacOS High Sierra

EDUCATION

M.S. Chemistry (Computational Science)
University of South Dakota, Vermillion, SD

Certificate, Information Technology
University of South Dakota, Vermillion, SD

B.S. Chemistry
University of South Dakota, Vermillion, SD

SOFT SKILLS

- Organized project management
- Critical and strategic thinking
- Written and oral communication
- Responsible and accountable

EMPLOYMENT & VOLUNTEER EXPERIENCE

Linux Systems Engineer and Technical Writer, Oak Ridge National Laboratory
Remote (Oak Ridge, TN), January 2018 to present
- Supervise, create, and improve technical documentation of complex HPC, storage, cloud, and data management systems. Command-line interfaces, APIs, and research computing environments are included.
- Maintain the document publication workflow, consisting of a git-backed document repository to provide enhanced user-facing features which has been enhanced by the implementation of “how to contribute” documents.
- Manage and develop the team’s website resources including technical and marketing material.
- Communicate regularly with architects and engineers on new technology to provide the timeliest information to users.

Newsletter Editor and Webinar Organizing Committee, Sustainable Horizons Institute
Remote, August 2017 to present
- Develop a quarterly newsletter with a focus on the mentor-protégé relationship.
- Brainstorm topics that aim to enhance technical skills, improve soft skills, and encourage diversity in STEM fields.
- Produce documents and advertising materials using MS Office Suite.
- Create surveys and feedback questionnaires for future and past webinar attendees.

Student Administrator and Technical Writer, Research Computing Group, IT Department, University of South Dakota

Vermillion, South Dakota, September 2016 to August 2017

- Established and facilitated several workshops intended to teach research computing skills to non-computational researchers at all academic levels from undergraduates to tenured faculty.
- Created documentation for users of the high-performance computing cluster.
- Built and maintained the group's primary website which contains material on subjects ranging from basic programming skills to particle physics applications.
- Learn new software and hardware to develop user guides, tutorials, and installation instructions.

Science Instructor, Upward Bound, University of South Dakota

Vermillion, South Dakota, May 2017 to July 2017

- Developed and taught a six-week intensive science lecture and laboratory course for high school students in a special program for students from low-income families or families in which neither parent completed college.

Research and Teaching Assistant, Chemistry Department, University of South Dakota

Vermillion, South Dakota, September 2013 to July 2017

- Performed independent research including data generation and analysis.
- Invited to give presentations at partner universities and national conferences.
- Authored three peer-reviewed journal articles in the computational chemistry and quantum physics research field.
- Instructed students in laboratory safety and procedures in a pre-laboratory lecture.
- Prepared chemical reagents; maintained technical equipment and chemical inventory.

SELECTED AWARDS

- **President's Award for Diversity**, University of South Dakota, April 2017
- **Best Posterium Award**, SIAM Conference on Computational Science and Engineering (CSE17), Atlanta, GA, February 2017
- **Travel award**, SIAM Conference on Computational Science and Engineering (CSE17) Broader Engagement Program, Atlanta, GA, January 2017
- **Travel award**, Midwest Big Data Summer School; Iowa State University, June 2016
- **National Science Foundation/SD-IGERT Fellowship**, University of South Dakota, August 2015

PEER-REVIEWED PUBLICATIONS

Sapp, W., Gifford, B., Wang, Z., Kilin, D. (2017). Mathematical modeling of gas desorption from a metal-organic supercontainer cavity filled with stored N_2 gas at critical limits. *RSC Advances*, 7 (18), 11180-11190, DOI:10.1039/c6ra21876h.

Erck, A., **Sapp, W.**, Kilina, S., & Kilin, D. (2016). Photo-induced charge transfer at interfaces of carbon nanotube and lead selenide nanowire. *Journal of Physical Chemistry C, 120*(40), 23197-23206, DOI:10.1021/acs.jpcc.6b05571.

Sapp, W., Koodali, R., & Kilin, D. (2016). Charge transfer mechanism in titanium-doped microporous silica for photocatalytic water-splitting applications. *Catalysts, 6*(3), 34, DOI:10.3390/catal6030034.

Sapp, W., Erck, A., Wang, Z., & Kilin, D. (2015). Electronic and spectral properties of a metal-organic super container molecule by single point DFT. *Molecular Physics, 114*(3-4), 394-399, DOI:10.1080/00268976.2015.1076899.