Edward Michael McDonald, III

Address: 3729 Riverton Trail, Tallahassee, FL 32311
Phone: (772) 600-4665 **Email**: Michael.McDonald@FSU.edu

EDUCATION

Master of Science in Electrical Engineering   Dec. 2007
Florida State University, Tallahassee, Florida
Thesis: **Designing Reliable Large Scale Storage Arrays**

Bachelor of Science in Computer Engineering   Aug. 2005
Florida State University, Tallahassee, Florida

Bachelor of Science in Electrical Engineering   Aug. 2005
Florida State University, Tallahassee, Florida

WORK EXPERIENCE

Senior Research Associate, Florida State University   **Aug 2019 –   Present**
Associate in Research, Florida State University   Aug 2014 – Aug 2019
Assistant in Research, Florida State University   Feb 2008 – Aug 2014
Center for Ocean-Atmospheric Prediction Studies (COAPS)
- HYCOM.org Administrator (https://www.hycom.org/)
    - Specialty in high-performance data storage systems
    - Manage high-availability data services (2 Petabytes)
    - Provide assistance to a global user community
- Systems and Network Administrator
    - Specialty in data storage, systems monitoring, & server virtualization
    - Provide high-availability web and data services

Senior Research Associate, Florida State University   **Aug 2019 –   Present**
Associate in Research, Florida State University   Aug 2014 – Aug 2019
Assistant in Research, Florida State University   Feb 2008 – Aug 2014
Department of Scientific Computing (DSC)
- Maintain primary web portals (e.g., https://www.sc.fsu.edu)
- Specialty in systems monitoring, web design, social networking, & video conferencing
- Support Audio/Visual Equipment

Assistant Computer and Network Administrator   May 2003 - Jan 2008
Center for Ocean-Atmospheric Prediction Studies, Florida State University
- Organized Silicon Graphics to Linux system migration
- Developed automated email processing system for research vessel shipboard data
- Implemented email gateway system for spam and virus filtering

CERTIFICATIONS

CompTIA A+ Certified Professional

RESEARCH SPONSORED ACTIVITIES

- Department Research (COAPS)
- Department Research (Scientific Computing)
- 040085 - Consortium for Simulation of O
- 033465 - Surface Turbulent Energy and M
- 038636 - U.S. Research Vessel (SAMOS)
- 036526 - A Data Serving Platform for HYCOM
- 035094 - Rolling Deck to Repository (R2R)
- 031133 - T2: U.S. Research Vessel Surface
- 030460 - The Deep-C Consortium

NONREFEREED PRESENTATIONS AT CONFERENCES

- Smith, S. R., Arko, R. A., Bourassa, M. A., Hu, J., **McDonald, M.**, Rettig, J., & Rolph, J. (presented 2010). The Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative Data Management System. Presentation at International Marine Data and Information System, IMDIS, Paris, France. (International)

- Rolph, J. J., Rettig, J. T., Bourassa, M. A., Hu, J., **McDonald, M.**, Rettig, J., & Rolph, J. (presented 2009). Data Management System to Collect, Quality Control, Distribute, and Archive Near Real-time Marine Data. Presentation at Annual Conference, NGI, Mobile, AL. (Regional)

- Rettig, J. T., Bourassa, M. A., Hu, J., **McDonald, E. M.**, Rolph, J. J., & Smith, S. R. (presented 2009, May). Data management system to collect, quality control, distribute, and archive near real-time marine data. In John Fernandez (Chair), Data Integration and Management Workshop on the Gulf of Mexico. Poster presentation at the meeting of unknown, Corpus Christi, Texas. (Regional)