

Daniel Bradford Miller

Curriculum Vitae

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Education

University of South Alabama	Mobile, AL
School of Computing, PhD Program	2015-Present
School of Computing, Information Systems Masters Program	2011-2015
University of South Alabama	Mobile, AL
Bachelor of Science in Information Technology, Networking Focus, <i>summa cum laude</i>	2008

Research Interests

Digital Forensics
Data Recovery
Additive Manufacturing
Applied Computing
Information Assurance

Publications

Journal Articles:

D. B. Miller, W. B. Glisson, M. Yampolskiy, and K.K.R. Choo, "Identifying 3D printer residual data via open-source documentation," *Computers & Security*, vol. 75, pp. 10–23, Jun. 2018. [doi:10.1016/j.cose.2018.01.011](https://doi.org/10.1016/j.cose.2018.01.011).

Book Chapters:

Y. Hu, W. Lan, and D. Miller, "Exploring MicroRNA::Target Regulatory Interactions by Computing Technologies," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 123–131. [doi:10.1007/978-1-4939-7046-9_9](https://doi.org/10.1007/978-1-4939-7046-9_9).

Y. Hu, W. Lan, and D. Miller, "Next-Generation Sequencing for MicroRNA Expression Profile," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 169–177. [doi:10.1007/978-1-4939-7046-9_12](https://doi.org/10.1007/978-1-4939-7046-9_12).

Y. Hu, W. Lan, and D. Miller, "Handling High-Dimension (High-Feature) MicroRNA Data," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 179–186. [doi:10.1007/978-1-4939-7046-9_13](https://doi.org/10.1007/978-1-4939-7046-9_13).

B. Wu and D. Miller, "Involvement of MicroRNAs in Diabetes and Its Complications," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 225–239. [doi:10.1007/978-1-4939-7046-9_17](https://doi.org/10.1007/978-1-4939-7046-9_17).

L. Zhang, D. Miller, Q. Yang, and B. Wu, "MicroRNA Regulatory Networks as Biomarkers in Obesity: The Emerging Role," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 241–260. [doi:10.1007/978-1-4939-7046-9_18](https://doi.org/10.1007/978-1-4939-7046-9_18).

G. Zhu, L. Xie, and D. Miller, "Expression of MicroRNAs in Thyroid Carcinoma," in *Bioinformatics in MicroRNA Research*, vol. 1617, Humana Press, New York, NY, 2017, pp. 261–280. [doi:10.1007/978-1-4939-7046-9_19](https://doi.org/10.1007/978-1-4939-7046-9_19).

Presentations

"The Case for Investigating Residual Data on 3D Printers", Digital Forensics Information Intelligence Research Group, University of South Alabama, Mobile, AL, November 15, 2017.

"Parallel Processing", American Association of Physics Teachers, Chesapeake Section & Virginia Instructors of Physics – Spring Meeting, James Madison University, Harrisonburg, VA, April 13, 1996.

Professional Experience

University of South Alabama, College of Arts and Sciences Mobile, AL
Management Systems Specialist Aug 2010 – Present

- Oversee technical support operations for all physical and virtual computing assets (~1300 systems) of the College as well as its associated Programs and Centers by managing between 2 and 5 employees.
- Provide primary technical support, needs assessment, risk assessment, systems design, and data recovery services for College equipment in faculty, staff, classroom, clinical, research, and general student computing environments.
- Serve as liaison between the College of Arts and Sciences and other University Divisions, vendors, and external entities on technical matters.
- Quote hardware for acquisition through contract purchasing vehicles and draft systems and equipment specifications for acquisition through bid processes.

University of South Alabama, Hospitals Mobile, AL
PC Applications Specialist Jul 2009 – Aug 2010

- Resolved end-user problems with network connectivity, Windows operating systems, GroupWise email clients, and various hospital information systems.
- Deployed, managed, and troubleshot desktop and laptop computer hardware.
- Specified and quoted replacement hardware.
- Provided on-site and remote after-hours support per rotation.

University of South Alabama, Computer Services Center Mobile, AL
Student Assistant Sep 2005 – May 2009

- Resolved end-user problems with network connectivity, Windows, OS X, and Linux-based operating systems, and IMAP and GroupWise email clients.
- Configured, managed, and troubleshot Cisco switches and access points via Cisco's IOS for a network spanning 33 buildings.
- Assisted in the development of two in-house database solutions using MSSQL.

Professional Organizations

Association for Computing Machinery (ACM) – Professional Member
Institute of Electrical & Electronics Engineers (IEEE) – Student Member

Certifications

ICCP – Information Systems Analyst, Mastery Level, Cert# 280614, 2009 – Present.
Commonwealth of Virginia – Emergency Medical Technician, Basic, 1996 – 2000.

Honors and Awards

University of South Alabama Physics Department Outstanding Physics Student Award 2007

Alpha Iota Mu – IT/IS Honor Society

Phi Kappa Phi – Honor Society

Alpha Chi – Honor Society

Service

USA Research Computing Committee, Member, 2016 – Present

Mobile Area Regional Science Fair, Judge, 2015-2017