

Justin M. Beaver, Ph.D.

☎ 865.671.0969 📠 865.456.8181 ✉ jbeaver107@gmail.com 📍 Knoxville, TN

LinkedIn: <https://www.linkedin.com/in/justin-beaver-7a302017/>

Objective To obtain an executive/senior technical management position, to cultivate an organization and lead research and development programs in computer science or engineering.

Professional Experience

Cybersecurity/Data Science Group Leader, and Senior Research Staff

Oak Ridge National Laboratory, Oak Ridge, Tennessee
Q/SCI Cleared

Since 2011, led multiple organizations at ORNL, ranging in size from 10-40 computer scientists/engineers, focused in research and development domains such as cybersecurity, intelligent computing, vehicle security and data science.

Since 2009, served as Principal Investigator on 19 different funded projects totaling \$18.3M from sponsors such as Department of Defense, Department of Energy, and Lockheed Martin. All projects were focused on national security problems in cybersecurity, information fusion, threat detection, grid security and law enforcement.

Author of 25 refereed publications to date, and 1 patent.

Delivered multiple advanced prototypes applying data analytics, machine learning (ML), and text analytics to national security.

ORNL Profile: <https://www.ornl.gov/staff-profile/justin-m-beaver>

ORNL Group Twitter: https://twitter.com/ORNL_CISR

Aerospace Technologist, Computer Engineer

National Aeronautics and Space Administration (NASA)
Kennedy Space Center, Florida

Command and control system computer engineer, focused on software development for the launch control system of the Space Shuttle program.

Designed, tested and delivered operational software for shuttle ground checkout systems.

Education

2001 – 2006
1997 – 2001

Ph.D., M.S. Computer Engineering,
University of Central Florida

1990 – 1995

B.S., Electrical Engineering,
Tennessee Technological University

Personal

- Married, with two sons
- Activities: Cokesbury UMC, Running, Volleyball, Soccer, Hiking
- Interests: Pro/college football and basketball, Farragut HS sports

Areas of Expertise

Program Leadership
Research/Engineering Management
Cybersecurity Architectures and Analytics
Cyber-Physical Systems
Data Science
Mission-Critical Systems

Technical Skills

Languages

java • python • c/c++ • html • tcl/tk • perl

Operating Systems

os x • linux • windows • vxworks

Data Analytics Tools/Libraries

pandas/scikit-learn • elk • minorthird

Security Tools/Libraries

libpcap • wireshark • splunk • dtrace • argus • bro

Development Tools

git • eclipse • Atom • maven

Office Tools

ms office • iwork • dropbox • slack • latex

Professional Service

Served on multiple conference program committees including ICMLA, CAC, CISRC.

Served as a reviewer for multiple journals including ACM TOSEM, El Sevier CAS, IEEE SMC

Served as a mentor for 2 early career staff and 8 graduate students.

Academic Profiles

Google Scholar

<https://scholar.google.com/citations?user=1GNzOMUAAAAJ>

IEEE

<https://ieeexplore.ieee.org/author/37569404300>

ACM

https://dl.acm.org/author_page.cfm?id=81312481755

ORCID

<https://orcid.org/0000-0002-0281-6017>