

David Bader

Distinguished Professor, Computer Science at New Jersey Institute of Technology

Newark, NJ, US

Interests lie at the intersection of data science & high-performance computing, with applications in cybersecurity

Biography

David A. Bader is a Distinguished Professor in the Department of Computer Science at New Jersey Institute of Technology. Prior to this, he served as founding Professor and Chair of the School of Computational Science and Engineering, College of Computing, at Georgia Institute of Technology. He is a Fellow of the IEEE, AAAS, and SIAM, and advises the White House, most recently on the National Strategic Computing Initiative (NSCI). Dr. Bader is a leading expert in solving global grand challenges in science, engineering, computing, and data science. His interests are at the intersection of high-performance computing and real-world applications, including cybersecurity, massive-scale analytics, and computational genomics, and he has co-authored over 230 articles in peer-reviewed journals and conferences. Dr. Bader has served as a lead scientist in several DARPA programs including High Productivity Computing Systems (HPCS) with IBM, Ubiquitous High Performance Computing (UHPC) with NVIDIA, Anomaly Detection at Multiple Scales (ADAMS), Power Efficiency Revolution For Embedded Computing Technologies (PERFECT), Hierarchical Identify Verify Exploit (HIVE), and Software-Defined Hardware (SDH). He has also served as Director of the Sony-Toshiba-IBM Center of Competence for the Cell Broadband Engine Processor. Bader is a cofounder of the Graph500 List for benchmarking “Big Data” computing platforms. Bader is recognized as a “RockStar” of High Performance Computing by InsideHPC and as HPCwire’s People to Watch in 2012 and 2014. In April 2019, Bader was awarded an NVIDIA AI Lab (NVAAIL) award, and in July 2019, Bader received a Facebook Research AI Hardware/Software Co-Design award.

Areas of Expertise

Computational Genomics, Applications in Cybersecurity, Data Science, High-Performance Computing, Massive-Scale Analytics

Affiliations

AAAS Fellow, IEEE Fellow, SIAM Fellow

Event Appearances

Massive-scale Analytics

13th International Conference on Parallel Processing and Applied Mathematics (PPAM)

Predictive Analytics from Massive Streaming Data

44th Annual GOMACTech Conference: Artificial Intelligence & Cyber Security: Challenges and Opportunities for the Government

Education

University of Maryland
Ph.D. Electrical and Computer Engineering

Lehigh University
M.S. Electrical Engineering

Lehigh University
B.S. Computer Engineering

Accomplishments

NVIDIA AI Lab (NVAIL) Award
2019

Invited attendee to the White House's National Strategic Computing Initiative (NSCI) Anniversary Workshop.
2019

Facebook AI System Hardware/Software Co-Design Research Award
2019

Named a member of "People to Watch" by HPC Wire
2014

The first recipient of the University of Maryland's Distinguished Alumni Award
2012 Department of Electrical and Computer Engineering

Named a member of "People to Watch" by HPC Wire
2012

Selected by Sony, Toshiba, and IBM to direct the first Center of Competence for the Cell Processor
2006

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