



Institute for Data Science



NJBDA Symposium at NJIT

The 2022 New Jersey Big Data Alliance Symposium will take place this year at the New Jersey Institute of Technology on May 9h hosted by the Institute for Data Science. The New Jersey Big Data Alliance Symposium is New Jersey's premier conference for big data and advanced computing, consistently attracting 200+ attendees from industry, government, and academia. The theme for the 9th Annual Symposium is "Building the Workforce Pipeline for a Data-Driven Economy" and will include keynotes, a panel discussion, and workshops.

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A graphic for the Center of Artificial Intelligence featuring a hand interacting with a digital interface, with binary code and circuitry in the background.


**Center of
Artificial
Intelligence**

A graphic for the Center for Big Data featuring a compass rose with an arrow pointing towards the text 'BIG DATA' on a blue background.

**Center for Big
Data**

A graphic for the Cybersecurity Research Center featuring a globe surrounded by various security icons like a padlock, magnifying glass, and network symbols, with binary code in the background.

**Cybersecurity
Research Center**

A group photo of several people, likely the SABOC team, standing together in a professional setting.

**Structural
Analysis of
Biomedical
Ontologies
Center (SABOC)**

STUDENT UPDATES

Center for Big Data Student Updates:

Two Ph.D. Students recently graduated in January 2022! Dr. Wuji Liu joined Amazon as a Research Scientist and Dr. Haifa Alquwaiee joined Jubail University College as an Assistant Professor.

Ph.D. Dissertation Defense Announcements

"Anonymity and Abuse Prevention in Secure Messaging"

Erin Kenney

Computer Science Department

Dissertation Advisor: Chase Wu, Ph.D.

1/06/2022

Upcoming Defense:

"Ensemble Learning Models for Large-Scale Time Series Forecasting in Supply Chain"

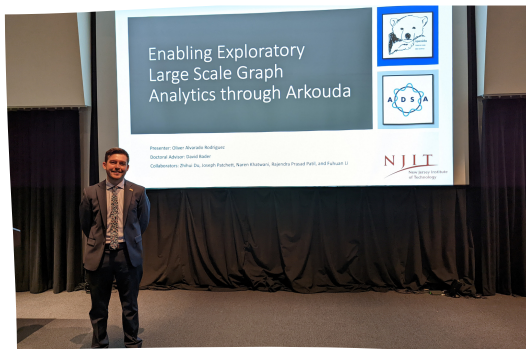
Maggie Zhang

Computer Science Department

Dissertation Advisor: Chase Wu, Ph.D.

3/29/2022

Student Updates Continued



Student Keynote at the Academic Data Science Alliance 2022 Spring Meeting

"Enabling Exploratory Large Scale Graph Analytics through Arkouda"

Oliver Alvarado Rodriguez presented at The 2022 ADSA Spring Meeting that occurred on March 7-9th 2022 in Sunny Irvine, CA. To read the abstract [click here](#).



Welcome to our new Advisory Board Member!



**ANIRUDH
BADAM**

PRINCIPAL RESEARCHER &
DIRECTOR OF ENGINEERING

MICROSOFT



Recent Research Publications

Institute for Data Science:

C. Yang, Z. Du, X. Meng, X. Zhang, X. Hao, and D. A. Bader, "*Anomaly Detection in Catalog Streams*," IEEE Transactions on Big Data, 2022.

A. van der Grinten, E. Bergamini, O. Green, D.A. Bader, H. Meyerhenke, "*Scalable Katz Ranking Computation in Large Static and Dynamic Graphs*," ACM Journal on Experimental Algorithmics, 2022.

Center for Big Data:

H. Alquwaiee and C.Q. Wu. "On Performance Modeling and Prediction for Spark-HBase Applications in Big Data Systems". In Proc. of IEEE International Conference on Communications, Seoul, South Korea, May 16-20, 2022 (ICC22).

C.Q. Wu (guest editor). Special Issue on "Workflows in Support of Large-Scale Science", Concurrency and Computation: Practice and Experience (CCPE), Wiley, March 2022. [Click here](#)

Cybersecurity Research Center:

Dhrubajyoti Ghosh, Peeyush Gupta, Sharad Mehrotra, and Shantanu Sharma: "*A Case for Enrichment in Data Management Systems*", in SIGMOD Records (ACM Special Interest Group on Management Data), Accepted Jan 2022.

Anrin Chakraborti, Reza Curtmola, Jonathan Katz, Jason Nieh, Ahmad-Reza Sadeghi, Radu Sion, and Yinqian Zhang: "*Cloud Computing Security: Foundations and Research Directions*", in Foundations and Trends in Privacy and Security, Vol. 3, Issue 2, Feb 22, 2022. [Click here](#)

David Bader Named ACM Fellow for Career in Data Science and Supercomputing

written by: Evan Koblentz

[Link to the full article](#)

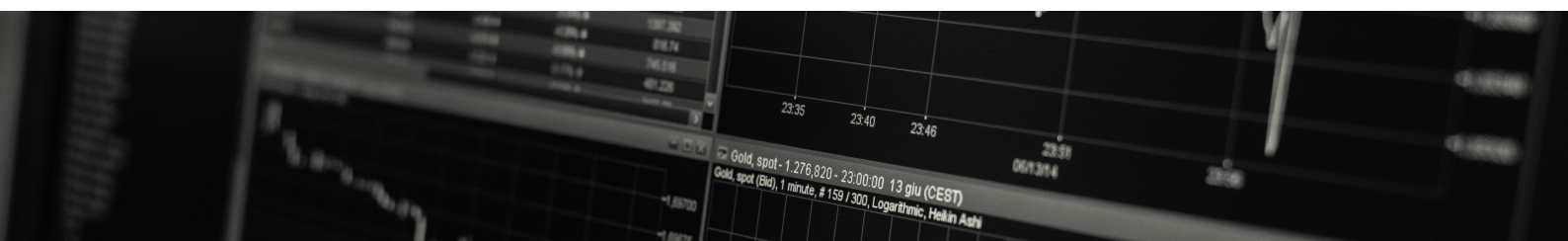
The ACM has announced NJIT Distinguished Professor David Bader in its new class of Fellows.

Bader received the honor along with 70 peers in the computing industry, representing just 1% of Association for Computing Machinery membership.

"The contributions of the 2021 Fellows run the gamut of the computing field — including cloud database systems, deep learning acceleration, high-performance computing, robotics, and theoretical computer science," ACM President Gabriele Kotsis stated.

"I reflect on the citation 'for contributions to high-performance computing systems, graph analytics, and technical leadership in parallel computing'," Bader said. "I am grateful for the computing community giving me the opportunity to serve our field throughout the years, including as Editor-in-Chief of the ACM Transactions on Parallel Computing," he added.

Bader developed a Linux supercomputer and connected it to the National Science Foundation's National Technology Grid. That accomplishment was cited by the IEEE Computer Society last fall in awarding him the Sidney Fernbach award, "for the development of Linux-based massively parallel production computers and for pioneering contributions to scalable discrete parallel algorithms for real-world applications."





New Jersey Big Data Alliance 9th Annual Symposium

Building the Workforce Pipeline for a Data-driven Economy

May 9th, 2022, 8:30 am - 3:30 pm

New Jersey Institute of Technology,
Campus Center, 323 Doctor Martin Luther King Junior Boulevard,
Newark, NJ 07102

Education and Training of a Big Data Workforce with a focus in Big Data, AI, and Machine Learning.

Outstanding Keynotes!

Stephen Ezell, Vice President, Global Innovation Policy,
Information Technology, and Innovation Foundation

Dr. Chaitan Baru, Senior Science Advisor, Office of
Integrative Activities, Office of the Director, National Science
Foundation

Event Highlights

- Industry Panel discuss cybersecurity skills in applicants
- Networking
- Academic Research sessions with presentations
- Hands-on workshops: building successful program and the challenges in education

Register at: www.njbda.org

For Sponsorships or exhibitor inquiries, please contact
Selenny Fabre: info.datascience@njit.edu

The New Jersey Big Data Alliance Advances Computing Innovation and Education in New Jersey



DATA SCIENCE SEMINAR SERIES

The Institute for Data Science Spring 2022 Seminar Series is in full swing join us for the remaining seminars which are held on Wednesdays at 4 PM Eastern Time. To view past seminars you've missed visit our youtube channel and follow us on Eventbrite to be notified of future events.

<https://datascience.njit.edu/events/>

Follow us on Eventbrite:

<https://njit-institute-for-data-science.eventbrite.com/>

Subscribe to our YouTube channel:

<http://www.youtube.com/c/NJITInstituteforDataScience>

Spring 2022 Upcoming Seminars:



March 30th, 2022

George Em Karniadakis
Brown University



April 20th

Joel Emer
Massachusetts Institute of Technology



April 27th

Klara Nahrstedt
University of Illinois



INSTITUTE FOR DATA SCIENCE DIRECTOR'S OFFICE



DAVID BADER

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