



COMPUTATIONAL DATA SCIENCE SPECIALIZATION

**BGSU
COLLEGE OF ARTS
AND SCIENCES**

Computational data science is a rapidly evolving interdisciplinary field that is in high demand. A Bachelor of Science in computer science with a specialization in computational data science provides a successful career pathway into the field. This course of study requires both theoretical statistics background for data analysis and practical algorithmic computing skills for data processing. The computational data science specialization gives students a strong foundation in machine learning, database management, and high performing computing, while providing a statistics background.



College of Arts and Sciences – Computational Data Science

Points of Pride

- The computer science major with a computational data science specialization prepares students for high paying, in-demand jobs by delivering continuously evolving curriculum in a student-centered learning environment, with a multi-layer advising structure.
- The specialization focuses on core data science (e.g., machine learning, high performance computing) with theoretical analytic skills.
- The computational data science program delivers a continuously evolving curriculum, accredited by the Computing Accreditation Commission of ABET..
- The program offers practical, hands-on data science experience (e.g., internship/co-op) with a strong computer science background..
- The undergraduate specialization provides a pathway to a Masters and Ph.D. in Data Science.

Computational Data Science Specialization courses:

- Introduction to Machine Learning
- Parallel Computing
- Database Management Systems
- Python for Computational & Data Science

What can I do with this major?

Computational data science graduates pursue careers in the following areas:

- Data Analyst
- Data Architect
- Data Engineer
- Data Scientist
- Database Administrator
- Machine Learning Engineer
- Software Engineer

For more information

**Computational Data Science
Department of Computer Science**

419-372-2337

bgsu.edu/cs

A Public University for the Public Good

The Department of Computer Science contributes to the public good by providing traditional and non-traditional students unique educational experiences for lifelong learning and career growth in high-demand domains; producing techniques that impact daily life via cutting-edge research; and promoting diversity and inclusion among students, faculty and the community.

BGSU BELONG. STAND OUT. GO FAR.
CHANGING LIVES FOR THE WORLD.
BOWLING GREEN STATE UNIVERSITY