

Data Analytics



Learn how to apply mathematical and computational techniques to make decisions in a wide range of industries and organizations.

Professors in mathematics, computer science, economics and business created this interdisciplinary major in the context of a liberal arts program. Your study begins with foundational courses in each discipline and moves to advanced classes in probability and statistics, database design, big data, machine learning, management science and game theory. A senior seminar provides a capstone experience and Christian perspective. Employers increasingly seek graduates who understand how to analyze data effectively in order to responsibly answer mission critical questions.

SELECTED COURSES

- Design and Implementation of Solutions to Computational Problems
- Information Retrieval and Big Data
- Database Design
- Artificial Intelligence and Machine Learning
- Applied Management Science
- Mathematical Methods of Data Science
- Game Theory
- Probability and Statistics

CAREER PATHS

- Management Analyst/Consultant
- Data Analyst
- Data Scientist
- Research Analyst
- Big Data Analytics Specialist
- Manager of Services/Manufacturing Operations
- Project Manager
- Supply Chain Manager
- Market Research Analyst



WESTMONT
SANTA BARBARA

FACULTY HIGHLIGHTS



ANNA ABOUD, PH.D.

Pursues effective and efficient processes in mathematics, data science, and mathematics education.



KYLE HANSEN

Studies the interactions of geometric and algebraic complexity



RUSSELL W. HOWELL, PH.D.,

Views mathematics through the eyes of faith



MIKE RYU, M.S.

Brings software engineering and technical management skills to Westmont from Silicon Valley



GUANG SONG, PH.D.

Does research in Computational Biology and Machine Learning



MARYKE VAN DER WALT, PH.D.

A mathematician and musician who applies data science to diabetes

OPPORTUNITIES



- Westmont in Asia
- Westmont's Europe Semester
- Westmont in San Francisco
- Westmont Downtown
- Westmont's Center for Applied Technology (CATLab)
- Westmont's South Africa Mayterm

ALUMNI

Dante Poleselli '20, is the Lead Baseball Systems Developer for the Los Angeles Angels.

Ben Forster '21, is a Platform Engineer at Umbra Space, an aerospace company that builds next generation space systems for observing the earth.

Dylan Sund '21, is a Data Analyst at Alliance Defending Freedom, an alliance-building legal organization that advocates for the right of people to freely live out their faith.



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westmont.edu/data-analytics