

Where do Mathematics and Applied Mathematics students go after graduating?

Occupations

Math Instructor
Account Executive
Associate Professional Staff I
Project Manager
Pilot
Fund Assistant
Banking Analyst
Donor Experience and Engagement Officer
Assistant National Bank Examiner
Web Developer
Technical Support Engineer
Math Teacher
Quantitative Analyst
Internal Auditor
Actuarial Analyst
English Teacher
Developer Support Technician
Technical Associate
Actuarial Intern

Data Advisor
Assistant Director of Mathnasium
College Adviser
Adjunct Teacher
Federal Research Engineer
Data Scientist - Research
Professional Consultant
Associate Data Scientist
Decision Analytics
Research Associate
Software Engineer
Actuarial Analyst
Risk Analyst
Pharmacy Technician
Operations Research Analyst
Product Manager
Associate Analytical Tester
Math Fellow
Financial Analyst

Companies/Organizations

Amazon
America Votes
Aon Hewitt
Allstate
Applied Research Associates
Arete Associates
Bank of America
Blue Cross Blue Shield
Broadcom Corp
CarMax
Cincinnati Reds
Coleman Research
Credit Suisse
Deloitte
Department of Defense
Department of Navy
Deutsche Bank
FAST Enterprises
Fidelity Investments
First Citizens Bank Headquarters
Google Headquarters
HanesBrands Inc.

IQVIA Consultant Company
John Deere
MCDean
MaxPoint
Merrill Lynch
Mercer, Inc.
Metlife
Microsoft
Milliman
Optum
Peace Corp
Pendo
Qiming
RTI International
Red Ventures
SAS Institute
United States Air Force
UBS
Verizon
Venture Capital
Wells Fargo
ZOOX

Where do Mathematics and Applied Mathematics students go after graduating?

Graduate Schools

Boston University
California Institute of Technology (Caltech)
Clemson University
Columbia University
Cornell University
Duke University
Georgia Tech University
Indiana University
John Hopkins University
Louisiana State University
Madison University
Massachusetts Institute of Technology (MIT)
North Carolina State University
Oden Institute
Penn State University
Princeton University
Purdue University
Stanford University
Texas A&M University
The Ohio State University

University of Arizona
University of California, Berkeley School of Law
University of Cambridge
University of Colorado-Boulder
University of Chicago
University of Maryland
University of Miami School of Law
University of Michigan
University of North Carolina at Chapel Hill
University of North Carolina at Charlotte
University Pittsburgh
University Texas, Austin
University Tennessee
University Washington at Seattle
University of Wisconsin-Madison
University of Virginia
Virginia Tech University
Wake Forest University

Graduate Programs

M.S. Mathematics
M.S. Applied Mathematics
M.S. Finance - Wealth and Asset Management
M.S. Analytics
Ph.D. Earth and Planetary Sciences
Ph.D. Physical Oceanography
M.S. Data Science
M.R. Financial Mathematics

M.S. Mathematics Education
Ph.D. Biostatistics
M.S. Statistics
M.S. Physics
M.S. Computer Science
M.S. Robotics
M.S. Foundations of Data Science
Ph.D. Geospatial Analytics

Careers of our graduates

Mathematics Department graduates and the companies/positions they received after graduation.

Bachelor of Science in Mathematics

Applied Research Associates, Inc. (ARA)

Algorithm Developer

Bachelor of Science in Mathematics, minor in Computer Programming

Apply math/statistics/physics/engineering concepts to solve multi-disciplinary problems. Familiar with improving/optimizing/tuning existing algorithms as well as developing new algorithms from scratch. This will include software design, software development, and debugging / issue resolution.

Wells Fargo

Quantitative Analytics Specialist

Bachelor of Science in Mathematics and a Bachelor of Science in Computer Science

Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information.

Facebook

Software Engineer

Bachelor of Science in Mathematics and a Bachelor of Science in Computer Science

Full-stack web/mobile application development with a variety of coding languages. Create products and features using internal programming language Hack Implement web or mobile interfaces using XHTML, CSS, and JavaScript. Work closely with our PM and design teams to define feature specifications and build products leveraging frameworks such as React & React Native Implement business data protections throughout our product suite. Build report interfaces and data feeds. Establish self as an owner of a particular component, feature, or system with expert end-to-end understanding. Successfully completes projects at large scope while maintaining a consistent high level of productivity.

Department of Defense

Research Mathematician

Bachelor of Science in Mathematics

Candidates must possess: - Strong problem-solving and analytical skills - Desire for continual learning - Ability to work effectively both independently and within diverse teams Knowledge and experience in one or more of the following areas is desired but not required. Successful applicants may learn these skills at the Agency. - Programming expertise in any language - Experience in the design, development, use, and evaluation of mathematical models, methods and/or techniques (e.g., algorithm development) The timeline for hiring mathematicians is quite long, commonly one to two years. We recommend applying when graduation is no more than a year out, as start dates can often flex to accommodate the needs of a successful applicant.

Careers of our graduates

Mathematics Department graduates and the companies/positions they received after graduation.

Bachelor of Science in Mathematics

Zoox

AI Verification Engineer

Bachelor of Science in Mathematics and a Bachelor of Science in Physics, minor in Computer Programming

Mine driving logs and build models of real-world data Create models of how other people and drivers behave Quantitatively measure the performance of our AI stack. Develop algorithms and methods to drive targeted simulations and analyses in high- dimensional space.

John Deere

Data Wrangler, C&F Machine Health Data Wrangler

Bachelor of Science in Mathematics, minor in Animal Science

Efficiently retrieves internal and external data and ensures that source data is accurate, meaningful, and valid for use in analytics and reporting. Combines 2-3 sources of structured data with a consistent identifier. Identifies ways to develop sustainable data provisioning solutions. Updates or develops dashboards.

Deutsche Bank

Technology Analyst

Bachelor of Science in Mathematics and a Bachelor of Science in Computer Science

Develop and deliver solutions to help modernize technology solutions, to reduce complexity and risk, and to drive business growth. Be part of a creative, collaborative, and innovative team, partnering with others, sharing solutions and have a strong desire to make an impact.

Cisco Systems

Content Strategist

Bachelor of Science in Mathematics, minor in Economics

Working with editors, writers, actors, producers, project managers and other team members to produce content. Researching and staying up to date on the latest developments in terms of search engine optimization, content trends and consumer behavior. Updating older content to meet new content standards. Ensuring consistency across all content, from websites to social media channels and videos. Maintaining a calendar of project deadlines and content launch dates Overseeing the development and launch of new content channels.

America Votes

National Data Engineering Manager

Bachelor of Science in Mathematics and a Bachelor of Arts in German Studies, Master of Science in Data Science

Assist with America Votes migration from AWS to GCP, and improve national early vote data management by automating the import of state early voter lists into VAN using the NGPVAN REST API. Work on pipelines between partner and vendor databases, curate internal documentation, and implement workflow improvements in codebase.

Careers of our graduates

Mathematics Department graduates and the companies/positions they received after graduation.

Bachelor of Science in Mathematics

RTI International

Systems programmer/analyst

Bachelor of Science in Mathematics and a Bachelor of Science in Statistics

Created SAS programs to re-organize survey data, pull in variable labels and formats from Excel, run frequencies, and other tasks in SAS on datasets with over 100 variables and 3,000 observations. Maintained a program that created a large dataset called the "Methodology" dataset, utilizing PROC SQL to pull subsets of data from over 20 sources, filtering out the real data from test data, labeling descriptor variables, and much more resulting in clean, accurate data. Problem-solved by digging into "odd" observations, finding the source of the error, and fixing the error for future processes quickly and efficiently.

SAS

Senior Associate Software Developer

Bachelor of Science in Mathematics and a Bachelor of Science in Computer Science

As a full stack developer at SAS, I work on the Orion web application with a team of roughly 30 other developers, testers, project managers, and product owners. Orion is an internal CRM that is used by the finance and sales departments to manage roughly \$6B worth of sales annually. I primarily use Java to develop REST APIs, Angular for front end development, and SQL for database management.

Microsoft

Software Engineer II

Bachelor of Science in Computer Science and a Bachelor of Science in Mathematics, with minor in Spanish

Software Engineer II on a team building cloud-based solutions for deriving insights from IoT data, including the Azure Digital Twins product. Responsibilities include, full stack implementation and testing using languages and frameworks like C#, React, and Playwright. Creating custom code generation solutions that, combined with API-first design using tools like TypeSpec, accelerate development of full stack projects. Strengthening the security posture of a complex microservice built on Azure using Managed Service Identities, private endpoints, and other best practices. Improving observability and monitoring of a cloud service, including migration to more modern and secure SDKs. Supporting service health and customer satisfaction by responding to availability issues, applying mitigations, and resolving bugs.

Careers of our graduates

Mathematics Department graduates and the companies/positions they received after graduation.

Bachelor of Science in Applied Mathematics

Cincinnati Reds

Junior Data Scientist

Bachelor of Science in Applied Mathematics and a Bachelor of Science in Statistics

Collaborate with the Director and members of the Baseball Analytics department to implement the department's research and development efforts within new and existing applications. Design, develop, test, implement and maintain predictive models and metrics utilizing appropriate tools and techniques.

Splunk

Machine learning Research Engineer

Bachelor of Science in Applied Mathematics

Machine learning engineers design and create the AI algorithms capable of learning and making predictions that define machine learning (ML). An ML engineer works as part of a larger data science team and will communicate with data scientists, administrators, data analysts, data engineers and data architects.

Verizon Business

Project Coordinator

Bachelor of Science in Applied Mathematics and a Bachelor of Science in Economics, minor in Economics: Logic and Methodology

Completing end-to-end operations for all pricing offers via Catalyst. Partnering with strategic teams to develop new offers and change existing offers. Partnering with Digital to provide content and offer eligibility for a digital launch. Testing and validating that offers are live prior to communications being sent. Troubleshooting offer issues by leveraging different systems (SOI, ACSS, etc.). Leveraging dashboards to ensure message codes are loaded. Evolving the process flow to be more streamlined.

CarMax

Strategy Analyst

Bachelor of Science in Applied Mathematics, minors in Music Studies and Statistics

Be an analytic partner and establish a close working relationship with a product manager or our operational partners. Design and analyze tests to evaluate effectiveness of changes to our products or operational changes. Enhance analytical tools, such as models, reports, and dashboards, utilizing them to monitor performance and drive ongoing performance.

DEPARTMENT OF MATHEMATICS

Careers of our graduates

Mathematics Department graduates and the companies/positions they received after graduation.

Bachelor of Science in Applied Mathematics

FIS

Financial Analyst I

Bachelor of Science in Applied Mathematics with Concentration in Financial Mathematics, minor Global Leadership and Team Decision Making

Completed rotations in Banking - Consolidation, doing FP&A reporting and ad-hoc requests. Currently in business-line FP&A engaging with the monthly cycle on a granular level, and fine-tuning reporting skills and completing ad-hoc projects. Have presented a CapEx investment pitch, and currently working on a team to develop a use case and financial model for introduction of an AI agent into the sales finance lifecycle.

UBS

Audit Data Scientist

Bachelor of Science in Applied Mathematics and a Master of Science in Risk Management and Analytics, minor is Physics

Support wealth management audit teams by delivering data-driven insights, analytics, and innovative solutions tailored to enhance auditing processes by applying expertise in Python, SQL, Alteryx, GenAI and Power BI to analyze, visualize, and manipulate data, creating impactful tools and products that streamline and elevate audit team capabilities. Collaborate on special projects focused on optimizing and refining auditing methodologies while leveraging knowledge of the wealth management space to provide targeted analytical support. Develop advanced tools and methodologies using innovative data analysis techniques, enabling more efficient and accurate audits. Utilize Agile methodologies and GitLab for effective task prioritization, sprint progress tracking, and cross-functional team collaboration. Serve as project coordinator and lead for a Capstone project with Duke University students, overseeing project creation, design, and execution while guiding and supporting students throughout the process.

JPMorgan Chase Bank

Data Scientist Associate Senior

Bachelor of Science in Applied Mathematics and a Bachelor of Science in Statistics

Engage with stakeholders to provide senior leadership with strategic data-driven insights that inform decision making across US Wealth Management. Develop repeatable and scalable analytical solutions to improve advisor experience by aligning with Finance, Practice Management, and Field Leadership objectives. Lead efforts to increase team efficiency and share knowledge across a diverse and global team by building a repository of standard SQL queries and python functions maintained in GitHub.