

# MASTER OF QUANTITATIVE FINANCE

Acquire sophisticated data and programming skills to succeed in the quantitative careers of finance. You'll gain specialized knowledge of financial markets by combining your math, computer science or engineering skills with the latest data analytics techniques.

## KEY CONCEPTS

- Numerical methods and simulation
- Financial engineering
- Credit risk modeling
- Portfolio management
- Quantitative investment
- Institutional asset management
- Fintech
- Textual analysis

## INDUSTRY-SPECIFIC TOOLS

- Financial programming
- Financial data analytics
- Big data and machine learning in finance
- Risk modeling
- Python
- SAS

## CAREER -TAILORED EXPERIENCES



### Consulting Projects

Refine your consulting and risk management skills through working with Citibank, Fannie Mae and our other major business partners.



### Global Equity Fund Management

Manage \$500,000 of the university's endowment fund with your peers.



### Network-Building Activities

Solve complex financial challenges in case competitions and connect with major employers who hire our students.

## PROGRAM DETAILS

# STEM ELIGIBLE PROGRAM

**3 OR 4**  
SEMESTERS

**36**  
CREDITS

## WHO SHOULD APPLY

Recent college graduates who are methodical problem-solvers and highly proficient in statistics, calculus and other quantitative subject areas.

# \$85k

Average starting salary  
of our MQF grads  
(2020)

# 48%

Employers projected to hire candidates  
with a master's degree in finance  
(GMAC, 2020)

# 65%

Percentage of quantitative  
analysts with a master's degree  
(Occupational Information  
Network/U.S. Department of Labor)

## POTENTIAL INDUSTRIES

- Credit risk management
- Data analytics
- Economic or statistical research
- Financial advisory or consulting
- Market risk management
- Quantitative investment research
- Quantitative trading

## EXPERT, WORLD-CLASS FACULTY



### Pete Kyle

- Wrote Kyle '85, a seminal paper lauded by Nobel laureates, and the co-creator of an entire field of finance research – market microstructure.
- Expert in market microstructure, corporate finance, asset pricing and management, and private equity.



### Russ Wermers

- Allen J. Krowe Teaching Award recipient.
- Expert in securities markets, microfinance, quantitative equity strategy and stock price setting for institutional investors.

## GRADUATES' JOB PLACEMENTS



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*My background is in computer science. I decided to pursue this degree because I didn't want to be a purely engineering or finance guy — I wanted to be a combination of them. I wanted to do both technical work while also connecting with people, and the MQF program helped me become that kind of person.*

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— Wenrui Liu, Master of Quantitative Finance '20, Credit Analyst at Ivy Direct

\*Data for 2020 graduates who reported their U.S. salaries to Maryland Smith's Office of Career Services.

## LEARN MORE

CALL: 301.405.2559 | EMAIL: SMITHMASTERS@UMD.EDU | VISIT: GO.UMD.EDU/MQF



ROBERT H. SMITH  
SCHOOL OF BUSINESS