In one year, the Berkeley MFE Program will prepare you with the knowledge and skills necessary to propel you to the cutting-edge of finance and data science.
The Berkeley MFE Program has been ranked #1 by QuantNet and the TFE Times and named one of the top 10 quant schools by Advanced Trading magazine.

The Program

Coursework

- One-year master’s degree program
- Top faculty (ladder faculty and industry professionals)
- Designed exclusively for MFE students
- 95% of the work is team-based
- Independent study projects within quantitative finance and data science
- Financial Practice Seminars for enhanced learning and networking with industry

Internship

- Three-month paid internship
- A 100% placement record for the past several years
- A very strong connection to Wall Street and beyond
Proven Track Record of Successfully Launching Careers

- Highly personalized career services
- Strong internship and full-time placement program
- Highest salaries compared to any similar program in the world

Class of 2017 First Year Compensation

<table>
<thead>
<tr>
<th>Average First Year Total Compensation:</th>
<th>$157,419</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median First Year Total Compensation:</td>
<td>$145,000</td>
</tr>
</tbody>
</table>

- See our website for more info: http://mfe.berkeley.edu/careers/placement.html
Career Services

- Recognized experts who work with you and for you
- MFE resume book & job posting website
- Financial Practice Seminars
- MFE alumni network
- Mock interviews
- Workshops
- Job fairs
- UC Berkeley Career Center
Broad Range of Opportunities

Investment Banks
Asset Management Firms
Hedge Funds
Trading Firms
Commercial Banks
Private Equity Firms
Consulting Companies
Corporate Treasury

Wide Variety of Functions

Portfolio Management
Sales & Trading
Financial Modeling, Research & Analysis
Risk Management
Corporate Finance/Treasury Department
Derivatives
Financial Programming
Pricing/Structuring
Software Development

Careers | Destinations and Functions
Financial Practice Seminars & Recent Recruiters of MFE Students
Aude Barthelemy
MFE 13
Vice President
Goldman Sachs
New York, NY
Prior Degree:
BS, Applied Math, Statistics
ENSAE ParisTech, France

Zhiping Chen
MFE 16
Associate, Quant Modeler
Morgan Stanley
New York, NY
Prior Degrees:
BS, Physics
Peking University, PRC
Ph.D., Physics, UCLA

Won Tai Cho
MFE 15
Associate, MSSM – SPG
Strats
Morgan Stanley
New York, NY
Prior Degree:
BS, Electrical Engineering
Stanford University

Daron Golden
MFE 16
Associate
BlackRock
San Francisco
Prior Degrees:
BS, Actuarial Science
University of Cape Town, South Africa
Rajat Agarwal
MFE 11
Senior Director, Investor Group
Capital Markets
Lending Club
San Francisco, California
Prior Degree:
BS, Electrical Engineering
IIT Delhi, India

Sophia Chami
MFE 12
Quantitative Researcher
Systematica Investements
Geneva, Switzerland
Prior Degree:
M.Eng., Mathematics and
Computer Science
Ecole des Ponts ParisTech

Dieter Dijkstra
MFE 14
Trader
XR Trading
London, UK
Prior Degree:
BS + MS, Mathematics and
Computer Science
Oxford, UK

Craig Dana
MFE 16
Associate, Quant Analytics
Barclays, New York, New York
Prior Degree:
BS, Chemical Engineering
Rutgers University
Ph.D., Chemical Engineering
UC Berkeley
Admission Info and Deadlines

Admissions
- Undergraduate degree (comparable to US 4-yr degree)
- GMAT or GRE exam
  - We only look at percentiles
- TOEFL/IELTS for select international students
  - 90 IBT or 7 overall band
- Two letters of recommendation
- Interview (by invitation only)

Deadlines
- 4 deadlines: Jan, Mar, June, Oct
- Rolling admission
- Applications received after Oct deadline will be reviewed on a space available basis
Strong quantitative skills

Strong programming skills
- Python, R, Matlab, C++, KDB+, Q

Machine Learning & Artificial Intelligence coursework

Strong communication skills
- Ability to explain complex concepts in layman’s terms

Strong intuition and logic
<table>
<thead>
<tr>
<th>Strong Quantitative Background</th>
<th>Strong Finance Background</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Calculus</td>
<td>• Corporate Finance</td>
</tr>
<tr>
<td>• Linear Algebra</td>
<td>• Macro/Micro - economics</td>
</tr>
<tr>
<td>• Partial Differential Equations</td>
<td>• Investments</td>
</tr>
<tr>
<td>• Numerical Analysis</td>
<td>• CFA exams</td>
</tr>
<tr>
<td>• Advanced Statistics and Probability</td>
<td>(2-3 courses total in finance/economics)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Computer Programming</th>
<th>Other Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>• C++</td>
<td>• Writing</td>
</tr>
<tr>
<td>• MATLAB</td>
<td>• Communication</td>
</tr>
<tr>
<td>• Python</td>
<td>• Presentation</td>
</tr>
<tr>
<td>• R</td>
<td></td>
</tr>
<tr>
<td>• Machine Learning</td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisites**
Student Profile
Class of 2018-19 (graduating in 2019)

| What types of **backgrounds** do applicants commonly have? | Math, Statistics, Engineering, Finance, Natural Sciences, Economics, Computer Science, and related fields |
| What **degree levels** have they attained prior to the program? | Bachelor: 66%
Master: 29%
PhD: 5% |
| Is there **basic biographical info** on the current class? | Average age: 26
Men: 83%
Women: 17% |
| What is the **average GMAT/GRE** score? | Quantitative: 93%ile
Verbal: 78%ile |
| Which **countries** do MFE students come from? | The United States, China, India, Europe, Hong Kong, Canada, Australia, South Africa, Chile, Peru, Israel, South Korea, Thailand, and Singapore |
Information for International Students

Loans/Funding

- Loan available up to $60,000
- Two different loan options; rates and fees are slightly different
- 20-25 year repayment options, no pre-payment penalties
- Internship can offset the cost of tuition
- More info: http://www.haas.berkeley.edu/finaid/MFE/international-loans.html
<table>
<thead>
<tr>
<th>Spring Term (Mar-May)</th>
<th>Summer Term (Jun-Aug)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments and Derivatives</td>
<td>Derivatives: Quantitative Methods</td>
</tr>
<tr>
<td>Empirical Methods in Finance</td>
<td>Fixed Income Markets</td>
</tr>
<tr>
<td>Stochastic Calculus with Asset Pricing Applications</td>
<td>Financial Data Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall Term (Aug-Oct)</th>
<th>Internship Period (Oct - Jan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required: Financial Risk Measurement and Management</td>
<td>- 10-12 weeks</td>
</tr>
<tr>
<td>Electives:</td>
<td>- Often leads to a full-time offer</td>
</tr>
<tr>
<td>- Asset Backed Security Markets</td>
<td>- CPT for International Students</td>
</tr>
<tr>
<td>- Financial Innovation in a Global Marketplace</td>
<td></td>
</tr>
<tr>
<td>- International Equity &amp; Currency Markets</td>
<td></td>
</tr>
<tr>
<td>- Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter Term (Jan-Mar)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Required: The Morgan Stanley Applied Finance Project</td>
<td></td>
</tr>
<tr>
<td>Electives:</td>
<td></td>
</tr>
<tr>
<td>- Dynamic Asset Management</td>
<td></td>
</tr>
<tr>
<td>- Behavioral Finance</td>
<td></td>
</tr>
<tr>
<td>- Ethics and Regulation in Finance</td>
<td></td>
</tr>
<tr>
<td>- High-Frequency Finance</td>
<td></td>
</tr>
<tr>
<td>- Topics in Financial Engineering</td>
<td></td>
</tr>
</tbody>
</table>

Student Services | Curriculum
Student Services

- Orientation Week
- Teamwork
- FESA: The Financial Engineering Students’ Association
- Activities and Events
- Building a network that will last a lifetime

Student Life
The Berkeley MFE Program offers students access to a variety of state-of-the-art computing resources.
The Berkeley MFE Program offers students access to a variety of financial databases, statistical and analytical software packages, and the highest quality financial data available direct from the exchanges.
## Finance Prep

### CFA Program
- [www.cfainstitute.org](http://www.cfainstitute.org)

### UC Berkeley Extension
- [extension.berkeley.edu](http://extension.berkeley.edu)

Coursework at any accredited institution

## Math/C++/Statistics Prep

Any accredited institution

Online resources:

- Columbia Video Network
- Applied Math Online at University of Washington
- Netmath at UIUC
- Harvard Extension School
- Stanford School of Continuing and Professional Studies
- University of Athabasca (must achieve 80% or better)
- Coursera*

MFE pre-program courses (offered Jan – Mar)

## Recommended Reading

- *Heard on the Street: Quantitative Questions from Wall Street Job Interviews* by Timothy Crack
- *A Practical Guide to Quantitative Finance Interviews* by Xinfeng Zhou
- *Options, Futures, and Other Derivatives* by John Hull
- *Principles of Corporate Finance* by Brealey, Myers, and Allen
- *Macroeconomics* by Charles Jones
- *The Wall Street Journal*, *the Financial Times*, and the *Economist*

## MFE Office Contact Info

**Website**
- [mfe.berkeley.edu](http://mfe.berkeley.edu)

**Email**
- [mfe@haas.berkeley.edu](mailto:mfe@haas.berkeley.edu)

**Phone**
- 1-510-642-4417 or 1-510-642-6983