

# Davis Vaughan

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## Education and Scholarship

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The University of North Carolina at Charlotte

Fall 2013 - Spring 2017

**Levine Scholar** - UNC Charlotte's most prestigious merit scholarship awarded to 15 high school seniors based on scholarship, ethical leadership, and civic engagement.

- *Master of Science in Mathematical Finance*  
Early entry during senior year  
Expected graduation - Spring 2018
- *Bachelor of Science in Mathematics for Business*  
Concentration in Actuarial Science  
Concentration in Finance/Economics
- *Minors in Chemistry and Computer Science*
- *GPA - 3.98*
- *Actuarial Exams*  
P/1 – Probability  
FM/2 – Financial Mathematics
- *Member of Pi Mu Epsilon*  
UNC Charlotte's Mathematics Honor Society
- *UNC Charlotte's Mathematical Finance Scholarship*
- *DW Simpson's Actuarial Science Scholarship 2016*

## Experience and Employment

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Co-author

R package - tidyquant

January 2017 – Present

- Co-author of the R package, tidyquant, dedicated to performing financial analysis in R in the easiest, most scalable way possible.
- An abstract demonstrating tidyquant has been accepted to two conferences: Enterprise Applications of the R Language (EARL) 2017 and R/Finance 2017.

Finance Course Development Intern

DataCamp

January 2017 – April 2017

- Content creator of courses specializing in teaching R for financial applications. Some relevant R packages include xts/zoo, quantmod, PortfolioAnalytics, and Quandl.

Quantitative Research Intern

Sterling Capital Management LLC

May 2016 – December 2016

- Automated and improved a Fixed Income Risk Model that utilized Stata programming, custom ARCH/GARCH modeling, SQL within Microsoft Access, and Excel VBA macros.
- Other projects – Portfolio optimization using VBA; Web scraper for financial stock price and fundamentals data using VBA's Internet Controls; Various automation tools for pulling from financial data sources; Risk analytics models using R.

Founder / Tutor

Acquired Knowledge Tutoring

Fall 2011 – January 2017

- 500+ hours of tutoring experience with upper level math and chemistry classes. Founder and website creator.

Cultural Immersion Experience

Bolivia

Summer 2015

- Traveled and performed community service throughout rural Bolivia. Refined team skills through an ice climbing rope team.

Counselor / Intern

Hugh O'Brian Youth Leadership

2011-2014

- Gained four years of leadership experience through the HOBY Program. 300+ hours of community service logged in support of HOBY. Interned with the program over the summer of 2014 and learned about planning a nonprofit leadership event.

## Programming Languages

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Master – R, VBA

Advanced – SQL, Access, Java, Stata

Novice – C++, SAS