

# Davis Vaughan

Entrepreneur | Data Scientist | Quantitative Finance

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## Education

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**The University of North Carolina at Charlotte**

**Fall 2013 - Spring 2017**

**Levine Scholar** – UNC Charlotte’s most prestigious scholarship. Awarded based on academics, leadership, and civic engagement.

- *Master of Science in Mathematical Finance*  
Expected graduation - Spring 2018
- *Bachelor of Science in Mathematics for Business*  
GPA - 3.98
- *Minors* – Chemistry, Computer Science
- *Concentrations* – Actuarial Science, Finance

## Employment and Experience

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**Co-founder, Manager of Software**

**Business Science LLC**

**January 2017 – Present**

- Mission – Focused on creating a network of data science specialists to tackle any corporate analytics project.
- Oversee and implement company software development initiatives such as R packages and course creation.
- Work with clients to develop personalized data science solutions using R, Shiny, and Amazon Web Services.
- R package co-author – tidyquant, timetk, sweep, tibblertime.
- To learn more – [www.business-science.io](http://www.business-science.io)

**Actuarial Intern**

**Lincoln Financial Group**

**May 2017 – August 2017**

- Projects leveraging R – Created Shiny dashboards for visualizing quarterly reports; Parallelized IRR calculations across all product lines; Streamlined the data import process into the actuarial software, MG-ALFA; Created an internal company R package.
- Presented two “Introduction to R” talks to improve workplace technology awareness.

**Finance Course Development Intern**

**DataCamp**

**January 2017 – April 2017**

- Main author of the Introduction to R for Finance and Intermediate R for Finance courses.
- Embraced and thrived in the fast-paced start-up culture.
- Developed the flexibility needed to pivot to new projects and meet strict deadlines.

**Quantitative Research Intern**

**Sterling Capital Management LLC**

**May 2016 – December 2016**

- Automated a Fixed Income Risk Model that utilized Stata, GARCH modeling, SQL, and VBA.
- Other projects – VBA portfolio optimization; VBA web scraper for stock price and fundamentals data; Automation tools for pulling from financial data sources; Risk analytics models using R.

**Founder and Tutor**

**Acquired Knowledge Tutoring**

**Fall 2011 – January 2017**

- 500+ hours of tutoring experience with upper level math and chemistry classes.
- Hired, managed, and scheduled other tutors and leveraged VBA to send out automated invoices.

**Cultural Immersion Experience**

**Bolivia**

**Summer 2015**

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

## Programming and Software

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**Expert** – R, Shiny, VBA, Excel, Word

**Advanced** – Git, SQL, Access, Stata

**Novice** – Python, Matlab, C++, SAS, Java