

Davis Vaughan

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Education

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*
Early entry during senior year
Expected graduation - Spring 2018
- *Minors*
Chemistry
Computer Science
- *GPA - 3.98*
- *Bachelor of Science in Mathematics for Business*
Concentration in Actuarial Science
Concentration in Finance/Economics
- *Actuarial Science Exams*
P/1 – Probability
FM/2 – Financial Mathematics
- *UNC Charlotte’s Mathematical Finance Scholarship*

Employment and Experience

Co-founder and Software Engineer

Business Science LLC

January 2017 – Present

- Develop personalized data science solutions for clients using R, Shiny, and Amazon Web Services.
- Co-author of three R packages – tidyquant, timekit, and sweep.
- Abstracts about tidyquant were accepted to Enterprise Applications of the R Language (EARL) 2017 and RFinance 2017.
- Visit our website to learn more – www.business-science.io

Actuarial Intern

Lincoln Financial Group

May 2017 – Present

- 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 Lincoln R package.
- Presented two “Introduction to R” talks to improve workplace technology awareness.

Finance Course Development Intern

DataCamp

January 2017 – April 2017

- Main creator or co-creator of 6 courses specialized in teaching R with financial applications.
- Embraced and thrived in the fast-paced start-up culture requiring flexibility 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 programming, custom GARCH modeling, SQL, and Excel VBA macros.
- Other projects – Portfolio optimization using VBA; Web scraper for stock price and fundamentals data using VBA; 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 used VBA macros 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

Expert – R, Shiny, VBA, Excel, Word

Advanced – SQL, Access, Java, Stata

Novice – Python, C++, SAS