**Ryan McWhorter**

[ryan.mcwhorter@utexas.edu](mailto:ryan.mcwhorter@utexas.edu) • [rmcwhorter.github.io](file:///C:\Users\rmcwh\Downloads\rmcwhorter.github.io)

2624 Whitis Ave, Dorm 4305 • Austin, TX 78705 • (972) 571-7223

**Education**

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| --- | --- | --- |
| **The University of Texas at Austin** | Bachelor of Business Administration, Quantitative Finance | May 2022 |
|  | Overall GPA: 3.0053  I have completed 105 credit hours, including 20 additional hours of upper division mathematics. |  |

**Projects and Research**

**Sigmoid Technologies** – *Co-founder;* Austin, TX  December 2019 – Present

*Pre-seed startup focusing on medical imaging*

* Designed and built an app with my cofounder which allows real time diagnosis of chest x-rays
* Trained convolutional neural networks similar to CheXNet
* Constructed a backend system on Firebase which authenticates users, uploads images, and processes image data
* Integrated and maintained a NoSQL database, which efficiently serves both our iOS app and cloud functions

**Differential Geometry and Portfolio Theory** February 2020 – Present

* Investigated the application of modern differential geometry to financial risk measurement and classification alongside several professors
* Developed new ways of thinking about risk measures and methods of classifying arbitrage
* Synthesized a wealth of literature across fields as diverse as finance, statistics, and mathematical physics into comprehendible research

Harvard, harvard, Goldman Sachs, goldman, sachs, goldman sachs, financial analyst, strategy, buy-side, buy, side, buy side, analysis, asset, CFA, client, equity, excel, investment, models, portfolio, research, review, valuation, quantitative, analysis, communicate, communication, diversity, inclusion, equity, ethics, ethical,

**Leadership Experience and Activities**

**Texas USIT** –*General Member*  Active Member

* Voted on various positions to take with USIT capital, alongside other general members
* Attended secondary analyst group meetings, centered on learning the fundamentals of valuation
* Participated in annual Analyst Group Stock Pitch

**Technical Qualifications** \_\_\_\_\_\_\_\_\_

**Programming and Development**

* Highly fluent: Python, Rust, focused on data gathering and manipulation
* Varying fluency: R, MatLab, Bash, and SQL
* I’ve developed applications on most operating systems, including Windows, Linux (Ubuntu), and MacOS
* I also have experience in machine learning, in particular in image classification
* I am familiar with Git, having hosted many personal things on GitHub and Sigmoid Technologies’ codebase on GitLab

**Mathematics**

* My mathematical education includes probability, linear algebra, vector calculus, differential equations, and real analysis. This includes ongoing education in complex analysis and algebraic structures.
* In addition to standard curricular courses, I have some degree of familiarity with differential geometry and multilinear algebra.

**Computer Skills**

* I have extensive experience with Microsoft Excel and PowerPoint.

**Additional Information About Me** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Interests**

* I read frequently, and I have a reading list that can be found at <rmcwhorter.github.io/reading.html>.
* Most of my reading relates to finance, economic history, military history, and philosophy and sociology

**Work Eligibility**

* Eligible to work in the U.S. with no restrictions