LUKE BALLANTINE BENNETT

bennettluke33@yahoo.com | 214-280-3720 | GitHub

OBJECTIVE STATEMENT

To use my education and thinking to analyze data, make forecasts, and inform leaders at Netherland, Sewell & Associates, Inc. so that they may better help their clients.

EDUCATION

- **Kansas State University** | Graduate Work | Analysis and Applied Math | GPA 3.0
- **University of Texas at Dallas| B.S. Mathematics-Applied Math Concentration** | Class of 2022 | GPA 3.3
- **Collin College** | Texas Core Curriculum | GPA 3.6
- **Rockwall-Heath High School | High School Diploma** | Class of 2015 | Ranked top 11%

LANGUAGES

- **MATLAB** | MATrix LABoratory is a language developed in 1960s at University of New Mexico | Requires license
- **R** | Open-source (free) statistical computing language | Utilized open-source IDE RStudio | Markdown markup language
- **Python** | Open-source, widely popular programming language which emphasizes readability and simplicity | Self-taught

WORK EXPERIENCE

- **Graduate Teaching Assistant | Kansas State University** | Preformed recitation sessions for trigonometry and integral calculus twice weekly | Proctored and graded exams | Dedicated office and tutoring hours | $2022 - 2023$
- **Peer Tutor | University of Texas at Dallas** | Drop-in individual and group tutoring for university sophomore level math up to 19 hours weekly | Exam and weekly reviews that can be viewed on Peer Tutoring at UT Dallas's YouTube page | $2019 - 2022$
- **Student Assistant | Collin College Math Lab** Tutored math and transferred TI calculator programs | $2017 - 2018$

PROJECTS

- **Linear algebra with Python** | Interpreting a list of order less than or equal to two as a matrix, concepts such as Gaussian elimination and fundamental subspaces of a matrix | 2023
- **Methods of Applied Math** | Second order ordinary differential equations involving multiple spring motion solved via system of first order ODEs | Plotting finite Fourier series and a program confirming Gibbs phenomenon | 2022
- **Educational Use**| Created visualizations for students at K-State to tell them a story about their collective performance based solely on exam grades | Inverse bell curve distribution | 2022
- **Fibonacci sequence** | Three ways: for, while loops and recursion. These three approaches serve as fundamental examples of the difference in computation times | 2023
- **Data Analysis** | Cleaned and analyzed data according to precise instructions provided by the professor for assignments | Participated as a team member in a group project analyzing and presenting a dataset from Kaggle | 2021
- **Personal Use** | Plot personal long distance running data to make race time predictions. Key attributes, *Warm-up* and *Stretch*, were neglected, however, which can severely effect race time due to injury | $2021 - 2023$
- **Numerical Analysis** | Data interpolation and numerical differentiation and integration, machine error | 2019
- **Intro to Programming** | Learned coding fundamentals on sorting algorithms such as quick and bubble sort | 2019

AWARDS

- UT Dallas & Phi Theta Kappa Transfer Scholarship | Awarded for GPA $x \in [3.5, 3.74]$ out of 4.0, and credit hours $y \in [30, 90]$ hours upon transfer | Collin College $\xrightarrow{\text{transfer}}$ UT Dallas | $2019 - 2021$
- First place at an *integration competition* , a college sophomore level math competition | Collin College | 2018
- Keith and Veronica Wright Annual Scholarship | For academic excellence & GPA $x \in [3.0, 4.0]$ | Collin College | 2018
- Most Valuable Gymnast | Rockwall-Heath High School | 2015

SKILLS

- Highly Proficient in Manual and Computer based Computational Analysis
- Skilled in Developing Presentations using LaTeX
- Highly Skilled in Presenting Complex Analysis/Computations to Varied Audience
- Proficient in novel problem solving with experience in guiding others to a solution
- Anti-prosopagnosiac | Keen ability to recognize a person by memory of his or her faces, colloquially denoted as "super recognizer"

REFERENCES