Jeanne Reppert

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OBJECTIVE

Accomplished professional, effective communicator, team player, and lifelong learner seeking to leverage my strong problem-solving skills to start a new career as an entry level bioinformatics programmer.

EDUCATION

University of North Carolina, Greensboro
Master of Science in Informatics and Analytics
August 2019 – May 2021 | GPA: 4.0
Honors: Phi Kapp Phi Honor Society

North Carolina A&T University, Greensboro
Post Baccalaureate Studies in Elementary Education
August 2004 – December 2005 | GPA: 4.0

Westminster Theological Seminary, Philadelphia
Master of Arts in Religion
August 1990 – May 1994 | GPA: 3.6

University of North Carolina, Chapel Hill
Bachelor of Arts in Music and Religious Studies
August 1984 – May 1988 | GPA: 3.04

SKILLS

- Programming Languages: R, Python, MySQL, and SAS
- SAS Enterprise Miner and Enterprise Guide
- Shiny Dashboard and Power BI
- Statistical programming including univariate and multivariate analysis, functions, loops, data manipulation, and simulations
- Machine learning and analytics in Python utilizing pandas, numPy, seaborn, scikit-learn, and PySpark packages
- Strong team leadership, project management, and communication skills
- Descriptive and predictive analytics with regressions, decision trees, random forest, k-means clustering, neural networks, natural language processing, and sentiment analysis
- Web page development (HTML and CSS)

PROJECT HIGHLIGHTS (for more project details see jeannereppert.github.io)

Capstone Project: Misinformation and Covid-19 in Popular Health Websites
- Created case study by analyzing web and social media content from three alternative health websites
- Scraped all 2020 articles from websites with rselenium and rvest
- Collected tweets from Massmine, Facebook posts from CrowdTangle, and web traffic data from Semrush
- Performed data cleansing, text mining and sentiment analysis in R for more than 7000 articles, tweets and posts
- Visualized the results with ggplot, wordcloud, igraph, and plotly in R

Internet of Things Project with Power BI
- Programmed sensors in Arduinos to collect data to send to google sheets with IFTTT applets
- CSV files merged, cleaned, and transformed using in R and visualized with Power BI Dashboard

World Happiness Data with Shiny Dashboard
- Utilized three datasets from the UN World Happiness survey to clean and visualize resulting data with Shiny Dashboard

MySQL Project – Animal Rescue Database
- Designed ER diagram for database and used MySQL to create database and perform queries on data

World Happiness Regression Analysis with SQLite3 and Spark
- Cleaned data with pandas, normalized and transformed data with scikit-learn, and visualized results in plotly and seaborn
- Used SQLite to create a database with 6 datasets containing environmental, fiscal, and demographic data for 155 countries
- Used PySpark for regression analysis to determine which variables within the dataset best predicted World Happiness scores

EXPERIENCE

Graduate Assistant, UNCG, Informatics and Data Analytics Program | Greensboro, NC   **August 2019 – May 2021**
- Assisted in research in social media and web page analytics
- Scraped, cleaned, analyzed, and visualized data for projects and publications
- Participated in a research group investigating Covid-19 misinformation using case studies and machine learning applications
- Assisted with program development, outreach, and website maintenance

Academic Dean and Teacher, Hope Academy | Greensboro, NC   **August 2012 – August 2019**
- Served as 5th – 8th grade Humanities teacher and curriculum facilitator
- Held position of Academic Dean in final year
- Tracked, reported, and created visualizations of student performance data
- Trained, mentored, and supervised teaching staff
- Developed and implemented organizational policies
- Designed and implemented curriculum for 5th – 8th grade core and elective classes
- Selected and supervised assessments in all grades and subjects

Classical Conversations Director | Jamestown, NC   **August 2007 – May 2012**
- Taught Logic, Latin, Literature, Science, Debate, Mock Trial, and Algebra to 8th grade homeschool students
- Taught English grammar and writing to 4th grade home school students
- Managed all aspects of business processes and student recruitment
- Substitute Teacher for Foundations Classes

Teacher, Jones Elementary | Greensboro, NC   **December 2005 – June 2006**
- Served as interim 4th grade English teacher

Private Music Instructor | Greensboro, NC   **August 1999 – June 2011**
- Self-employed piano and violin teacher
- Managed all aspects of business processes and student recruitment

Assistant Manager and Buyer, Westminster Seminary Bookstore | Philadelphia, PA   **August 1990 – August 1995**
- Supervised employees
- Developed database program for store inventory and sales
- Developed and maintained web page and store catalog

Clerk, UNC Hospitals | Chapel Hill, NC   **June 1988 – August 1990**
- Provided clerical support for PT and OT departments and Emergency Department
- Assisted with preparations for JCAHO certification
- Represented department during insurance audits
- Maintained department database for patient billing

VOLUNTEER WORK

Board Member, Hope Academy | Greensboro, NC   **August 2019 – Present**
Board Member, Early College at Guilford PTA | Greensboro, NC   **August 2010 – May 2013**
- Served as PTA President for 2012/2013 school year

Board Member, Early College Robotics Team | Greensboro, NC   **August 2012 – May 2013**
MathCounts Coach, Guilford Home Educators | Greensboro, NC   **August 2008 – May 2011**
Coordinator, Piedmont Regional Science Fair for Non-Public Schools | Greensboro, NC   **August 2009 – May 2012**
- Supervised and coordinated annual science fair for an 11-county region

Board Member, Ayuda Community Center | Philadelphia, PA   **August 1992 – May 1995**
- Founding member of the Board of Directors
- GED teacher, supervised college and high school interns