

## TIMOTHY A. BROWN

Atlanta, Georgia

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### Projects:

#### Successful Appeal of Property Tax Increase

Performed regression analysis using Excel, R, RStudio and ggplot2.  
Scraped and cleaned data from real estate, ArcGIS, and property tax websites.  
Crafted report and defended to a panel at the county Tax Assessors office.  
Convincingly showed the assessment was well-above comparable properties.  
Saved the client over \$3,000 on property taxes.

#### Tableau Dashboard for Course Enrollments

Built a Tableau dashboard for course enrollment data.  
Combined data for cross-listed and embedded courses in Excel using a VBA script.  
Displayed enrollment levels at various levels of granularity – college, campus, department.  
Predicted cancelled courses according to an adjustable low-enrollment parameter.  
Resulted in timely mitigation strategies for low-enrollment courses.

#### “Netflix Prize” Application for Hiring Process

Reduced time needed for faculty job searches from a year to six months.  
Built an unsupervised recommendation engine in MATLAB to improve hiring process.  
Created auditable workflow and data filtering process.  
Success rate of job postings increased from 40% to 100% over two years.

#### Fake News Detector – NLP Kaggle Competition

Built a “Fake News” detector using Google’s BERT NPL model.  
Achieved 98% accuracy which places it in the top 3 finalists for the contest.

#### Time-Series Forecasting for Course Offerings

Track historical trends in enrollment data to plan future course schedules.  
Reduced proportion of cancelled classes from 10% to 3%.

### Employment History:

- 2011 – Pres Associate Chair of Mathematics - Georgia State University*  
Manage on-campus and online academic departments.  
Conduct training workshops for students, faculty, and staff.  
Teach courses in mathematics and statistics.
- 2004 – 2011 Assistant Professor of Mathematics and Computer Science - South Georgia State College*  
Conducted assessment of all students for institutional accreditation.  
Designed curriculum for math and computer science programs.  
Taught courses in mathematics, statistics, computer science and IT.
- 1998 – 1999 Programmer I - U.S. Dept of Treasury, Customs Bureau*  
Updated nautical manifest system to Y2K compliance standards.  
Discovered the destructive backspace in the code editor.

### Education:

- 2004 M.S. Mathematics - University of California, Riverside*  
*1999 B.S. Mathematics and Computer Sciences - Greensboro College, North Carolina*  
*2020 Research Data Services Certification - Georgia State University*

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**Skills, Knowledge and Abilities:**

Programming

- Python
- R
- MATLAB
- JAVA
- C++
- VBA
- COBOL
- SQL

Python Libraries

- Numpy
- Pandas
- SciKit-Learn
- TensorFlow
- XGBoost
- Ktrain
- NLTK

Machine Learning

- Regression Analysis
- Decision Trees and Random Forests
- Artificial Neural Networks
- Convolutional Neural Networks
- Recommendation Systems
- Natural Language Processing (NLP)
- Associate Rule Learning
- Reinforcement Learning

Microsoft Office Suite

- Word
- Excel
- PowerPoint

Visualization, Graphic and UX/UI design

- Tableau
- GGplot2
- Seaborn
- Matplotlib
- PowerPoint
- Adobe PhotoShop
- Adobe Xd

Soft Skills

- Public Speaking
- Team Leader
- Project Management
- Arbitration, Mediation and Resolution
- Active Listening
- Professional Coaching
- Empathy and Perspective
- Collaboration
- Creative Design