

David England

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Summary

Highly adaptable and accomplished professional with a Ph.D. in Mathematics, Statistics, and Atmospheric Sciences. Over 15 years of combined experience in higher education, advanced research, and full-stack development. Possesses a strong foundation in a wide range of mathematical and statistical concepts, with exceptional written communication skills and a proven ability to create and teach complex problem sets. Seeking to leverage a robust academic background and diverse professional experience to excel as a remote Mathematics Expert.

Education

PhD, Mathematics, Statistics, and the Atmospheric Sciences

University of Alabama in Huntsville

01/1987 - 06/1993

MS, Mathematics, Statistics, and the Atmospheric Sciences

University of Alabama in Huntsville

06/1985 - 12/1987

BS, Mathematics, Physics, Statistics, and Computer Science

University of North Alabama

08/1978 - 05/1983

GPA: 3.33/4.00

Professional Experience

Adjunct Professor/Part-Time Math Teacher, Higher Education

08/2010 - 05/2014

- Taught a variety of collegiate-level mathematics courses, including Learning Support Math, Developmental Studies, Algebra, and Statistics.
- Developed and administered high-quality problem sets and exams to assess student understanding of mathematical concepts.

Postdoctoral Research Associate, Atmospheric, Global Hydrology and Climate Center

1995 - 1997

- Authored and co-authored multiple publications in peer-reviewed journals, demonstrating expertise in complex problem formulation and solution writing.
- Conducted advanced research and mathematical simulations for projects related to atmospheric science, including ozone transport and weather forecasting.

Mathematics Lecturer and Research Associate, The University of Alabama in Huntsville

1993 - 1995

- Lectured on advanced mathematical topics and conducted research, further

strengthening subject matter expertise and ability to communicate complex ideas clearly.

Data Scientist, Instrumental Sciences, Inc. & Applied Data Trends, Inc.

1998 - 2001

- Utilized strong statistical and mathematical modeling skills for data extraction and analysis.
- Applied advanced problem-solving techniques to complex data sets.

Full Stack Developer, Real Estate Intelligence Agency, Inc.

10/2012 - Present

- Currently using a deep understanding of logic and algorithms in programming and web development.

Skills

- **Mathematics:** Applied and Pure Mathematics, Algebra, Statistics, Calculus, Differential Equations, Mathematical Modeling.
- **Written Communication:** Academic and technical writing, problem-solving narrative, clear and concise documentation.
- **Research & Analysis:** Data Analysis, Statistical Modeling, Research Methodology, Problem Formulation.
- **Technical Proficiency:** HTML, JavaScript, CSS, jQuery, SQL, Java, PHP.
- **Languages:** English (Full Professional)

Publications

- *Stability functions based upon shear functions*
- *Concerning the Limiting Behavior of Time-dependent Slope Winds*
- *Predictability of the Stable Atmospheric Boundary Layer*
- *On the Behavior of the Stable Boundary Layer and the Role of Initial Conditions*