MATTHEW C. SITTEL
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EDUCATION and TRAINING:

ACADEMIC
1994 M.S., Meteorology, Florida State University, Tallahassee, FL
1992 B.S., Meteorology (Statistics minor), North Carolina State University, Raleigh, NC

EXPERIENCE:

Kansas State University

2022-present Assistant State Climatologist, Manhattan, KS

Authored weekly and monthly reports detailing weather across Kansas. Wrote articles for weekly Agronomy Department newsletter, spotlighting current and historical climate conditions. Served as eastern Kansas coordinator for Community Collaborative Rain, Hail and Snow Network (COCoRaHS). Maintained database of climate data from the Kansas Mesonet. Supported maintenance of over 160-year climate record at campus weather station. Performed manual and automated quality control of observational data from numerous in-state sources.

University Corporation for Atmospheric Research

1999–2021 Meteorologist/Systems Analyst, 557th Weather Wing, Offutt AFB, NE

Wrote and maintained software to verify meteorological forecast models. Wrote software to interface with NCAR's Model Evaluation Tools (MET) software package, and developed templates for summarizing statistics and generating graphical displays built from MET output. Developed new statistical algorithms to verify ensemble systems, deterministic models and cloud forecast models, including the use of hypothesis testing to compare forecast models, as well as error bar calculation to assess the significance between different forecast models. Prepared dozens of briefings detailing forecast model performance, using statistical principles to interpret model trends for field users within and outside of the agency. Ensured software compliance with Air Force coding standards. Monitored production processes to ensure nightly completion. Work prior to 2007 was through contract with Lockheed Martin and Affiliated Computer Services.

WyzAnt, Inc.

2016-present Statistics and Math Tutor, Bellevue, NE

Tutored middle school, high school and college statistics and mathematics students. Assisted with completion of students' class assignments through in-person meetings as well as via e-mail.

Bellevue University

2013-2015 Adjunct Professor, College of Science & Technology, Bellevue, NE

Introductory Statistics instructor. Prepared and presented lectures as well as online quizzes and assignments to reinforce concepts taught in class.

Iowa Western Community College

2002-2011 Adjunct Professor, Math Department, Council Bluffs, IA

Taught 9 semesters of Introductory Statistics and 1 semester of Introductory Algebra. Prepared all course exams and graded all assignments. Designed in class experiments to reinforce course concepts.

Delta Technology, Inc.

1997-1999 Programmer, Revenue Management Group, Atlanta, GA

Project lead for multi-million dollar airline revenue management model, designed to maximize profits for Delta Air Lines while maintaining high levels of customer satisfaction, achieved through minimization of overbooking reservations. Acted as liaison between programmers and revenue analysts to ensure business requirements were satisfied along with timely delivery of model output to analysts. Authored 250-page technical document detailing the revenue model's process flow and software function. Maintained revenue model software, and provided 24/7 on-call support for production code, as well as modified code as needed to fulfill customer requirements.

Orkand Corporation

1994-1997 Meteorologist, National Climatic Data Center, Asheville, NC

Chief programmer for all stages of product development of multiple CD-ROM data sets, including quality control, data inventory and user interface. Responsible for data gathering and construction of graphics for technical documents detailing significant worldwide meteorological events.

SYSTEMS SPECIFIC EXPERTISE:

C/C++ (22 years), FORTRAN 77/90, shell scripting, JavaScript, HTML, PHP, SAS, SPSS, SQL. Familiarity with UNIX, Linux and MS-DOS environments. Over 25 years of experience with Microsoft Office software.

PUBLICATIONS:

Eckel, F. & Allen, Mark & Sittel, Matthew. (2012). Estimation of Ambiguity in Ensemble Forecasts. Weather and Forecasting. 27. 50-69. 10.1175/WAF-D-11-00015.1.