

Practical Internship at NWS

EAS 4651

GT Instructors:

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NWS Instructors:

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*primary instructors

Introduction:

For EAS 4651 Practical Internship you have two main objectives:

- 1) Shadow Intern at the NWS
 - a. You will shadow the two primary operational desks
 - b. You will participate in daily operations, duties associated with severe or inclement weather
- 2) Independent Research Project
 - a. Choose a case study or data analysis project
 - i. Analyze the event/data
 - ii. Draw conclusions from your results
 - iii. Determine whether there is an operational impact
 - b. You will submit a project proposal for your project 3 weeks into the term
 - c. You will submit a research paper and do an oral presentation during finals week

Grading:

- 40% Internship/Participation
- 40% Research Project/Written Report
- 20% Oral Presentation and Q&A

Paper and presentation:

- 1) You will submit a written report at least three days prior to your scheduled oral presentation. Copies need to be electronically submitted to all instructors listed above. See details of format on the next page.

- 2) You will do a final oral presentation at Georgia Tech. Final presentations will take place the week before semester final exams, depending on the availability of the students and instructors. The presentation is open to all faculty, staff and students. Prepare for a 20-30 minute presentation followed by questions.

EAS Internship Report Guidelines

The report is a professional, scientific document that should provide more than just a narrative about the activity the student has completed for the internship. The report should include appropriate references and figures (with figure captions). As a guideline, the report should be less than 15 pages of double-spaced text written in a scientifically-robust style, and should follow AMS standards. A printed copy should be given to all listed instructors at least three days prior to the scheduled oral presentation.

Scientific Research-Based Report:

Title Page

Abstract:

One paragraph summary of what you did and what you concluded from your study (less than 1 page)

Introduction

Discuss the motivation behind the research. How does it fit into the bigger picture of meteorology? What has been done by others before and how does your work add to the knowledge? How does it fit into the bigger picture of the NWS goals? How does it impact the public?

Methods/Data

What data did you use? How did you analyze it (i.e. calculations you did)?

Results/Discussion

Discuss your analysis of the data. What were the results of your study? What are the key issues in forecasting for this event? What issues are there for public communication?

Conclusion

A final summary of the discussion and how your results fit back into what others have done and the bigger picture of meteorological forecasting and public impact.

Acknowledgements

References Cited