

## **A BEGINNER'S COURSE TO USING PYTHON IN CLIMATE AND METEOROLOGY**

### **SHORT COURSE ORGANIZER AND INSTRUCTOR**

Johnny Lin, University of Washington Bothell, Bothell, WA and North Park University, Chicago, IL

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#### **SAT 11 JAN**

- 8:30 A.M.**            **ARRIVAL AND INTRODUCTIONS.**
- 8:45 A.M.**            **PROGRAMMING ENVIRONMENT SETUP AND TROUBLESHOOTING.**
- 9:00 A.M.**            **INTRODUCTION TO PYTHON: WHAT IS AND WHY PYTHON?**
- 9:30 A.M.**            **USING THE PYTHON INTERPRETER AND INTERACTIVE DEVELOPMENT ENVIRONMENT (IDE).**
- 10:00 A.M.**           **COFFEE BREAK.**
- 10:30 A.M.**           **BASIC DATA AND CONTROL STRUCTURES.**
- 12:00 P.M.**           **LUNCH BREAK.**
- 1:30 A.M.**            **BASIC DATA AND CONTROL STRUCTURES (CONT.).**
- 2:30 P.M.**            **ARRAY OPERATIONS.**
- 3:00 P.M.**            **COFFEE BREAK.**
- 3:30 P.M.**            **ARRAY OPERATIONS (CONT.).**
- 5:15 P.M.**            **ASSIGN OPTIONAL HOMEWORK: PUTTING TOGETHER A BASIC DATA ANALYSIS ROUTINE.**
- 5:30 P.M.**            **COURSE ADJOURNS FOR THE DAY. (NOTE EARLIER START TIME THE NEXT DAY OF THE COURSE)**

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#### **SUN 12 JAN**

- 7:30 A.M.**            **ARRIVAL AND DISCUSSION OF OPTIONAL HOMEWORK: PUTTING TOGETHER A BASIC DATA ANALYSIS ROUTINE.**
- 8:45 A.M.**            **FILE INPUT AND OUTPUT.**
- 10:00 A.M.**           **COFFEE BREAK.**
- 10:30 A.M.**           **AN INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING USING PYTHON.**
- 12:00 P.M.**           **LUNCH BREAK.**
- 1:30 P.M.**            **VISUALIZATION: BASIC LINE AND CONTOUR PLOTS.**
- 3:45 P.M.**            **SHORT COURSE ADJOURNS.**