

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

SAT 5 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)**

SUN 6 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.**