



Undergraduate Modeling Workshop

May 20-25, 2018

SCHEDULE

Sunday, May 20

CENTENNIAL CAMPUS, NC State University

- 10:00-4:30 Participant check-in to NCSU **Centennial Campus- Valley Hall Wolf Ridge Apartments**
NCSU vans will pick up from RDU. (GPS for drivers: 35.767847, -78.673144)
- 5:00-7:00 Welcome reception at “[On the Oval Culinary Creations](#)” on NCSU Centennial
CampusAddress of the Building: **NCSU Centennial Campus Food Court**
(GPS for drivers 35.770080,-78.674372) Coordinator: **Thomas Gehrman** (NCSU) -
Introductions, presentation expectations.
All SAMSI postdocs and graduate fellows

Monday, May 21

Institute of Advanced Analytics (IAA), (Roanoke Room) - NC State Centennial Campus

- 7:30-9:00 Individual Breakfast “On the Oval Culinary Creations.”
- 9:15-9:30 Introduction and overview of SAMSI: **Elvan Ceyhan**, Deputy Director, SAMSI
Logistics of week: **Thomas Gehrman**, NCSU
- 9:30-10:30 **Setting the Scene:** Why we believe the climate is changing and why the research focus
will be on its impacts. **Doug Nychka** (NCAR) Why applied mathematicians and
statisticians need to be at the climate table. **Chris Jones** (UNC-CH)
- 10:30-11:00 Beverage Break in Vance Reception Lounge. Beverage available from 9:00am on
(this day only). 11:00-12:00 Overview of program and getting to know each other
- 12:00-1:30 Group Lunch in Vance Reception Lounge.
During lunch: Discussion of opportunities in analytics
Michael Rappa, Institute of Advanced Analytics (NCSU)
- 1:30-4:30 **Project group meetings:**
Goal: Formulate problem and consider roles of individuals in groups
- 4:30-5:00 **Reports from groups:** Problem formulation and group structure
- 5:00-6:30 **Individual Dinner** at “On the Oval Culinary Creations”, or where each group may decide.
- 7:00-8:30 Intro to R Lab in **IAA Roanoke Classroom** (no propping doors open after 5pm).

Tuesday, May 22

Institute of Advanced Analytics (IAA), (Roanoke Room & Breakout Rooms) - NC State Centennial Campus

- 8:45-9:00 Recap and announcements: **Doug, Chris, Elvan and Thomas**
Goal for day: Find data and prepare/formulate model as needed
- 9:00-10:15 Group meetings
- 10:15-10:45 Break in Vance Reception Lounge.
- 10:45-12:00 Group meetings
- 12:00-1:30 Lunch break
- 1:30-2:30 **Guest Lecture:** Hierarchical models for sparsely sampled high-dimensional LiDAR and forest variables: An interior Alaska FIA case study. **Andrew Finley (Michigan State)**
- 2:30-3:00 Break in Vance Reception Lounge
- 3:00-4:00 Group meetings
- 4:00-5:30 **Progress Reports and Feedback:** Each group has 10 minutes
- 5:30-6:46 Individual Dinner
- 6:45- Open Group Work time at each group's discretion.

Wednesday, May 23

Institute of Advanced Analytics (IAA), (Roanoke Room & Breakout Rooms) - NC State Centennial Campus

- 8:45-9:00 Recap and announcements: **Doug, Chris, Elvan and Thomas**
Goal for day: reconcile models and data, develop code as needed
- 9:00-10:15 Group meetings
- 10:15-10:45 Lounge
- 10:45-12:00 Group meetings
- 12:00-1:30 Lunch Break
- 1:30-3:00 **Progress Reports and Feedback:** Each group has 10 minutes
- 3:00-3:30 Break in Vance Reception Lounge.
- 3:30-4:30 Group meetings
- 4:30-6:00 SAMSI Graduate Fellow Poster Session at "On the Oval"
- 6:00-7:30 **Group Dinner and Dessert at "On the Oval"**

Thursday, May 24

Institute of Advanced Analytics (IAA), (Roanoke Room & Breakout Rooms) - NC State Centennial Campus

- 8:45-9:00 Recap and announcements: **Doug, Chris, Elvan and Thomas**
Goal for day: focus results, revisit original problem, distill lessons, message and any future ideas for research and/or instruction
- 9:00-10:15 Group meetings
- 10:15-10:45 Break in Vance Reception Lounge
- 10:45-12:00 Group meetings
- 2:30-3:00 Break in Vance Reception Lounge
- 3:00-5:30 Group meetings
- 5:30-6:45 Individual Dinner
- 6:45- Open Group Work time at each group's discretion

Friday, May 25

Institute of Advanced Analytics (IAA), (Roanoke Room) - NC State Centennial Campus

- 8:45-9:00 Announcements and wrap-up: **Elvan Ceyhan**, Deputy Director (SAMSI)
Goal for day: Articulation of outcomes
- 9:00-10:15 Group presentations and discussions
[25min each; bring slides loaded on a USB Thumbdrive]
- 10:15-10:30 Break in Vance Reception Lounge
- 10:30-11:45 Group presentations [25min each]
- 11:45-12:00 Vote of thanks and Project group photo with mentors
- 12:00 Adjourn and take box lunch from Vance Reception Lounge for on the road or shuttle to airport. Shuttle van to RDU is provided