

Schedule

A Tentative Schedule for the REU Program

- Phase I (Weeks 1-2) Logistics and Broader Technical and Professional Development Training.** This phase will include meeting the research mentors and administrative staff in the Math/Stats Department; Welcome by the Department Head and PI (Gupta), and by the Dean of the College of Arts and Sciences; Pre-Self-Evaluation of various competencies (described later under the “Evaluation and Reporting” section); Initial evaluation of students by mentors based on short presentations on a topic of the student’s choice; Workshop covering various machine learning topics by Somya Mohanty (Senior Personnel); Lectures on General Linear Models by Xiaoli Gao (Co-PI); Nonparametric methodology by Scott Richter (Senior Personnel); Data confidentiality and RRT models by Sat Gupta (PI); Introduction to sub-data selection by John Stufken (Senior Personnel); Introduction to Statistical Genetics by Jianping Sun (Senior Personnel); Invited lectures/workshops on variety of professional development topics ; A presentation by each mentor on her/his broader research program; Detailed presentations of individual research projects by each mentor; Meetings between individual students and mentors to discuss research projects; and **Formation of research teams assigned to various projects on Friday of Week 2**
- Phase II (Weeks 3-8)– Focused Research on Specific Projects.** This phase will include Bi-weekly meetings involving all students and mentors where students will provide an update on what they have done in the previous two weeks; Focused research on various projects with individual mentors; Visits to SAS, SAMSI, and other research centers in NC; Invited lectures on diverse topics and weekly common lunch/dinner; Extramural activities – week-end visits to State parks, museums, movies, and bowling, etc.; Mid-program 30-minute research presentations by all students in Week 6, showcasing work completed up to that point; and Visit by an external reviewer to meet with the students and write a program review, and attend research presentations by students
- Phase III (Weeks 9-10) – Finishing the Projects.** This phase will include preparation of final presentations; Post-Self-Evaluation by students on various competencies; Program and mentors’ evaluation by students; Final student presentations; and Presentation of program completion certificates and Final Dinner

A Tentative Professional Development and Social Activities Schedule. Please note that all meals will be “working meals”, and so will be various trips

<i>Week</i>	<i>Professional Development</i>	<i>Social Activity and Networking</i>
<i>1</i>	<ul style="list-style-type: none"> <i>Workshop on R by Dr. Scott Richter (Senior Personnel)</i> <i>Workshop on Responsible Conduct of Research by UNCG Office of Research Integrity</i> <i>CITI certification training</i> 	<ul style="list-style-type: none"> <i>Tour of the campus including the library, computer labs, and dining center</i> <i>Friday evening Social and Dinner</i>
<i>2</i>	<ul style="list-style-type: none"> <i>Workshop on LaTeX by Dr. Dan Yasaki (UNCG)</i> 	<ul style="list-style-type: none"> <i>Lunch at UNCG Dining Center</i> <i>Evening Walk in the Greensboro Battleground Park</i>

	<ul style="list-style-type: none"> • <i>Workshop on Natural Language Processing with Python by Somya Mohanty (Senior Personnel)</i> • <i>Lecture on Data Confidentiality by Sat Gupta (PI)</i> 	
3	<ul style="list-style-type: none"> • <i>Workshop on Supervised Learning (SVM, Ensemble Methods, Deep Learning) and Unsupervised Learning by Somya Mohanty (Senior Personnel)</i> • <i>Workshop on Randomized Response Models by Sat Gupta (PI)</i> • <i>Workshop on High Dimensional Data Related Simulations by a PhD student</i> 	<ul style="list-style-type: none"> • <i>Lunch in the Department to be attended by other undergraduate researchers in the Department, Math/Stats Head, and the CAS Dean</i> • <i>Saturday trip to Stone Mountain, NC</i>
4	<ul style="list-style-type: none"> • <i>Half-day visit to SAS</i> • <i>Significance of Undergraduate Research by Dr. Lee Phillips, Director Undergraduate Research, Scholarship and Creativity Office</i> 	<ul style="list-style-type: none"> • <i>Saturday picnic outing in the City Park</i> • <i>Lunch at UNCG Dining Center</i>
5	<ul style="list-style-type: none"> • <i>Full-day visit to SAMSI for Machine Learning Workshop</i> • <i>“Art of Seminar Presentation” by Sat Gupta (PI)</i> • <i>Invited Lecture by a former undergraduate researcher</i> 	<ul style="list-style-type: none"> • <i>Off-campus dinner with the Invited Speaker</i> • <i>Saturday trip to Grandfather Mountain</i>
6	<ul style="list-style-type: none"> • <i>“Publishing Journal Articles – by John Stufken (Senior Personnel)</i> • <i>Research with Human Subjects by UNCG IRB Office</i> 	<ul style="list-style-type: none"> • <i>Lunch at UNCG Dining Center</i> • <i>Afternoon coffee with Statistics PhD Students in the Department</i>
7	<ul style="list-style-type: none"> • <i>Invited Lecture by Sujit Ghosh, NC State University</i> • <i>Half-day visit to the Joint School of Nanoscience and Nanoengineering, Greensboro</i> 	<ul style="list-style-type: none"> • <i>Dinner with the Invited Speaker</i> • <i>Visit to the Civil Rights Museum in Greensboro</i>
8	<ul style="list-style-type: none"> • <i>Invited Lecture by Mark Daniel Ward, Purdue University</i> • <i>A Talk on Diversity by Julia Smith, Chancellor’s Fellow for Campus Climate</i> 	<ul style="list-style-type: none"> • <i>Lunch at the UNCG Dining Center</i> • <i>Bowling Trip</i>
9	<ul style="list-style-type: none"> • <i>Invited Lecture – Emily Griffith, NC State, President NC-ASA</i> • <i>Workshop on Qualtrics by a PhD Student</i> 	<ul style="list-style-type: none"> • <i>Dinner with the Invited Speaker</i> • <i>Movie</i>
10	<ul style="list-style-type: none"> • <i>Invited Lecture – TBA</i> • <i>Invited lecture on graduate school application process</i> 	<ul style="list-style-type: none"> • <i>Lunch with the Invited Speaker</i> • <i>Program-ending Dinner</i>