Geog 3A: Ocean and Atmosphere

TA: Rui Zhu
Outline

• Introduction of syllabus and some session policies
• Introduction of myself
• Introduction of lab 1
• Field work on collecting water sample
This lab section meets once a week

Tuesday in  *Phelps Hall 2525*
5:00 – 5:30pm

Office hours:
Wednesday 3 to 5 p.m.
5807 Ellison Hall
<table>
<thead>
<tr>
<th>Lab schedule</th>
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<tbody>
<tr>
<td>Week 1 (Jan 5\textsuperscript{th} – Jan 9\textsuperscript{th})</td>
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<td>Week 2 (Jan 12\textsuperscript{th} – Jan 16\textsuperscript{th})</td>
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<td>Week 3 (Jan 19\textsuperscript{th} – Jan 23\textsuperscript{rd})</td>
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<td>Week 4 (Jan 26\textsuperscript{th} – Jan 30\textsuperscript{th})</td>
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<td>Week 5 (Feb 2\textsuperscript{nd} – Feb 6\textsuperscript{th})</td>
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<td>Week 6 (Feb 9\textsuperscript{th} – Feb 13\textsuperscript{th})</td>
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<td>Week 7 (Feb 16\textsuperscript{th} – Feb 20\textsuperscript{th})</td>
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<td>Week 8 (Feb 23\textsuperscript{rd} – Feb 27\textsuperscript{th})</td>
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<td>Week 9 (Mar 2\textsuperscript{nd} – Mar 6\textsuperscript{th})</td>
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<td>Week 10 (Mar 9\textsuperscript{th} – Mar 13\textsuperscript{th})</td>
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Grading

Homework Assignments (20%): 5 assignments. Each assignment is worth 4% of your grade
Policies

1. Pair-up
For each lab, you need to pair up with a different classmate. Each group only needs to submit one report. No late work will be accepted, so you need to coordinate well.

2. Submission
Hard copy! Do not upload to Gauchospace.

3. Participation
Required!

4. No cheating or plagiarism!
Any additional questions about the syllabus or policies?

Now is a good time to clarify!
Who am I?
1st year Ph.D. Student

Research Interests:
Spatial analysis and geostatistics, and is still growing when I am learning!

Adviser: Phaedon Kyriakidis
Master Degree
Information Sciences
University of Pittsburgh, Pittsburgh, PA, USA

Specification: GeoInformatics
(1). Generation of Landmarks for Navigation Guidance
(2). Developing navigation systems for disables, especially for visually impaired persons
(3). Visualizations of social networks
Bachelor Degree
Information Management and Information Systems
Taiyuan, Shanxi, China

Taiyuan, Shanxi, China

Tourist attractions in Shanxi

37°52'10"N
112°33'37"E
Lab1: Salinity and scales

Due: Jan 20\textsuperscript{th} 5:00 p.m.

Submit it before class

Purpose: learn how to measure the salinity of seawater and understand the concept of scale.
Lab1: Salinity and scales

Week 1: Field work - collect seawater samples

Week 2: Measure the salinity and introduce “scale”
Week 1: Collect seawater samples
Week 1: Collect seawater samples

How to collect water?
• Empty any old water from your bottle;
• Rinse the bottle with the seawater from your sampling site three times;
• Then collect your water sample;
• Close the lid very tightly.
Week 1: Collect seawater samples

What else? → record some information concerning your sample

• Geographical location
• Time
• Weather condition (visual and official)
• Wave and tide condition (visual and official)
• Temperature (air and water)
• Any wildlife, interesting phenomena or pollution
• Take a picture!
Week 1: Collect seawater samples

Most importantly:

**Be safe when collecting samples!**
Week 1: Collect seawater samples

Then, you could finish Question 1 to 5 of the Lab 1 Part 1
What’s next week?

Lean how to use optical refractometer for measuring the salinity and density of your samples.
Useful Info to Remember

My office hours:  
Wednesday 3-5 p.m., ELLSN 5807

My email:  ruizhu@umail.ucsb.edu

Please check GauchoSpace periodically for communication related to assignments.