

UCLA Summer REU 2008

June 16, 2008

Today's Schedule

- **Monday June 16** -- First Day of REU
- 9:00 Meeting with mentors
- 10:00 Introductions and opening remarks
 - Andrea Bertozzi - MS 6627
- 11:00 Matlab Tutorial
 - Todd Wittman - MS 6627
- 12:00 Lunch
 - Grad Lounge MS 6620

List of Projects

- REU Organizer: Andrea Bertozzi
- Fluid Dynamics - Rachel Levy
- Disaster L.A. - Martin Short
- Texture Analysis - Arthur Szlam
- Geospatial Image Processing - Todd Wittman

Some Things to Keep in Mind

- This is a full-time job.
- You are working on open research problems. This means no one knows how to solve this problem. It is expected that the work will be hard and at times frustrating.
- This is not a course. Your mentor will guide you, but not lecture you or give you homework assignments. You will have to do a lot of independent learning.
- If you get stuck, you should consult the literature and talk to the members of your group. If you are unsure where to go next, talk to your mentor (*after 1/2 day*).
- You are expected to become the expert on your problem.
- *This REU is whatever you make it!*

Literature Survey

- An important first step in research is to see what has already been done.
- This is to make sure you don't repeat work others have done already and also to give you ideas on what could be done.
- You should learn how to track down references.
 - scholar.google.com
 - citeseer.ist.psu.edu
- The **Literature Survey** is due Monday June 30th.
- This is a 2-page report with a serious bibliography.
- You should briefly describe your problem and work that's already been done related to your problem.

Midterm Presentation

- The **Midterm Presentations** are scheduled for Wednesday July 16th.
- Your group will give a 10 minute talk describing your problem, the work you have done to date, and what you plan to do next.
- Your presentation will be given to the entire REU program.
- The speaking should be divided equally among your group (everyone gets a turn).
- The midterm presentations are informal. We want to make sure you are on track.

Final Deliverables

- The last day of the REU is Friday August 8th.
- You have to have your 3 deliverables ready:
 1. **Final Presentation**
 2. **Final Report**
 3. **Software** (*Arranged with mentor: code, Matlab GUI, website*)
- The **Final Presentation** is a formal well-rehearsed 15-20 minute talk summarizing all you've accomplished this summer.
- By 4:00 you must present your mentor a CD containing your **Final Report** and **Software**.

Summer Schedule

- **Monday June 16** -- First Day of REU
- **Monday June 30** -- Literature Survey due
- **Wednesday July 16** -- Midterm Presentations
- **Friday August 8** -- Last Day of REU
 - 10:00 Final Presentations
 - 4:00 CD with final report and software due

GRE Math Camp

- PhD student Mi-Youn Jung will run a Math GRE preparation camp this summer June 16 - August 8.
- Meets every TueThur 10:30-12:00 in MS 6221, starting tomorrow.
- If you are planning to apply to math grad school, we strongly encourage you to attend.

Have A Fun Summer!

- We are looking forward to a productive summer.
- Research is difficult and at times will get frustrating.
- Just keep reminding yourself:
THIS IS FUN!!!