CCT REU: Interdisciplinary Research Experience in Computational Science

Jesse Allison & Juana Moreno
Staff: Kathy Traxler
Andrew Pfalz
REU/REHSS

• Welcome

• Introductions
Events and Meetings

- Mentor Presentations **EVERY Tuesday** 3PM DMC 1008B
- Student Updates **EVERY Friday** 3PM DMC 1008B
- Managing Stress Lecture – July 18, 3 pm, 1008B DMC
- Physics & Astronomy Night – June 29, 5 pm Nicholson Hall
- LIGO Visit – June 17
- CAMD Visit – some Monday in June!
- Guest Speaker – Gabriela Gonzalez – 5 pm Wed. July 26
- Poster Review Sessions, Tuesday/Friday 3 pm, 1008B DMC
  - July 21, Lead: Edgar Berdahl
  - July 25, Lead: Peter Diener
CCT REU Guest Researcher

Einstein, Gravitational Waves and Black Holes

5:00 PM
Wednesday, July 26
Center for Computation and Technology
Digital Media Center Theater

Gabriela Gonzalez
Louisiana State University
LIGO Scientific Collaboration
Virgo Collaboration
Required Meetings
Digital Media Center 1008B

Tuesdays, 3 p.m.
Mentor Presentations
May 30: Hartmut Kaiser & Jesse Allison
June 6: Mayank Tyagi & Dan Shanahan
June 13: David Koppelman & Peter Diener
June 20: Graduate Student Mentors:
    Aisha Ali-Gombe & Amanda Diegel
June 27: Shawn Walker & Ken Lopata
July 11: Edgar Berdahl, Yorgos Veronis & Golden Richard
July 18: Managing Stress Seminar
July 25: Final Poster Review/Feedback:
    Peter Diener, Jesse Allison, Juana Moreno

Fridays, 3 p.m.
Student updates
May 26: Hartmut Kaiser
June 2: Mayank Tyagi
June 9: Dan Shanahan
June 16: Peter Diener
June 23: Shawn Walker
June 30: Ken Lopata
July 7: Edgar Berdahl
July 14: Yorgos Veronis
July 21: Poster Review: Edgar Berdahl & Juana Moreno

CCT: Center for Computation & Technology
Optional Training

• HPC Training, Frey 307
  – 5/24: Intro to Linux
  – 5/25: Introduction to Python
  – 5/26: Intermediate Python (Numpy)
  – 6/7: HPC user environment 1
  – 6/12: Running Jobs on HPC using the Agave Platform
  – 6/14: HPC user environment 2
  – 6/21: Intro to LaTex

http://www.hpc.lsu.edu/training/tutorials.php

• Python Review w/ Kathy Traxler – 6/5, 9:30 DMC 1008B
Optional Training

• 6th Annual LONI Parallel Programming Workshop, May 29-30 @ BEC, room 1615 – register at http://www.hpc.lsu.edu/training/workshop.php
• NVIDIA 2-Day Deep Learning Workshop, 5/31-6/1 @ BEC, room 1615 – register at http://www.hpc.lsu.edu/training/workshop.php
Student Presentations

• Initial Presentations (Project Outline):
  – Tuesday June 6, 9AM – Noon
    DMC Theater
  – 7 min presentation + 3 min Q&A

• Final Presentations:
  – Wednesday July 26, 9AM – Noon,
    DMC Theater
  – Formal 7 min + 3 min Q&A Slideshow
    Presentation
  – Special guest: Gabriela Gonzalez
REU SURF

- Summer Undergraduate Research Forum
- July 28, open to the public
- Poster presentation from all 100+ REU students at LSU
- Highest Ranked CCT REU posters will be awarded a travel grant for international/national conferences
Mentoring

Mentors should:

• Spend adequate time with their students
• Provide a space to work
• Be present at the two formal presentations and at the SURF
• Deliver a Tuesday seminar talk and lead a Friday Update.
Mentoring

• If the mentor travels during the program, he/she has to assign another mentor in his/her research group, who is familiar with the participant’s project, such as a graduate student, postdoc, or other faculty member.

• Mentors are invited to all academic, cultural, and social activities in which the students participate.
Surveys

• CCT Students:
  – Start and end of program, *a La Carte survey*
  – From the NSF CISE, nationwide, based at UNC
• Longitudinal: keep in touch
• Mentors will fill out surveys, too!
Other Activities

• DMAE Movie Night – June 1!
• NOLA Visit – June 3!
• LIGO Visit – June 17
• Astronomy Night – June 29
• DMAE Game Night – July 14
• Softball game – Students vs. Mentors TBA
• CAMD Tour – June...
• Swamp tour? Tiki tubing? Canoeing? Hiking?
• Suggestions?
Calendar

• Calendar of activities at http://reu.cct.lsu.edu
Mailing Address

• Mailing address:
  – Jesse Allison  
    Attention: *Your Name*
    340 E. Parker Blvd.
    Digital Media Center
    Louisiana State University
    Baton Rouge, LA 70803
Participants with Cars

- Corey Matyas
- Anna Neshyba
- Ethan Seal
- Daniel Schmidt
- Braden Weight
- Herschel Young
Bus Route

Tiger Trails, interactive map: http://lsu.transloc.com/

From WCA to the DMC - Purple Trail:
https://sites01.lsu.edu/wp/tigertrails/purple-trail/

- 5 min walk (0.2 mi) from WCA to bus stop (corner of Field House Dr. and Dalrymple Dr.)
- 9 minute ride to DMC
Campus Transit

- This is a door-to-door shuttle service, free of charge, that runs nightly from 5:30 p.m. to 12:30 a.m. Students can access this service by calling (225) 578-5555.
Next Steps

- Meet with your Research Mentor
- Make a research plan for the summer leaving room for any writing, presentation and poster development that must occur.
- Attend the Research Training Thursday, 1:00-3:00 @ Life Sciences Annex room 101A
- Identify and schedule any further training that you need to be involved in over the next few weeks – Make sure and register
- Settle in and get to know your fellow REU participants
- Familiarize yourself with LSU, Baton Rouge, the DMC and getting around.
- Research!
Questions?