

UNDERGRADUATE RESEARCH OPPORTUNITY IN NETWORKS AND DIRECTED GRAPHS

We are currently seeking applications from undergraduate students to participate in an undergraduate research project in mathematics, specifically the areas of network theory and graph theory. We will give preference to students who have completed the calculus sequence, regardless of major. In particular, we encourage Physics and Biology students with an interest in modeling to apply.

This work will involve independent and/or group research, as well as weekly meetings with a research advisor. The supervising professors will be Dr. Mark Tomforde and Dr. Krešimir Josić from the mathematics department. Undergraduate participants will be expected to spend approximately 10–15 hours per week working on the projects. The program will run for 3 semesters, starting in the Spring '08 semester and continuing through the Spring '09 semester. Qualified participants may begin the program at any time. Each student will be paid \$2,500 per semester for participating in the program.

No prior experience in network theory or graph theory is necessary. Any undergraduate who is familiar with writing proofs and/or has experience in programming and simulations is welcome to apply. To submit an application, please email the following materials to josic@math.uh.edu

- Resume
- A one-page statement describing (1) your qualifications, (2) why you are interested in participating in the research program, and (3) your career plans after receiving your B.A. / B.S. from UH
- The name of one faculty members who can serve as a reference (You only need to supply us with the name, and we'll speak with the faculty member.)

If you have any questions about the program, please send an email to the organizers:

Krešimir Josić, josic@math.uh.edu
Mark Tomforde, tomforde@math.uh.edu