Faculty Member Contact Information

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Description of the URCA Assistant Position

This posting includes one funded position. In addition, the faculty member may be willing to mentor additional, unfunded students.
How many unfunded students is this professor taking in addition to his/her one funded student? __1__
(Students, if the faculty member will have both funded and unfunded students, he or she is free to select which student receives the funding. Funding cannot be split up between multiple students; only one student will receive it.)

Which of the following apply to this position?

- **[ ]** This position is **only** open to students who have declared a major in this discipline.
- **[ ]** This project deals with social justice issues.
- **[ ]** This project deals with sustainability (green) issues.
- **[ ]** This project deals with human health and wellness issues.

How many hours per week will your student(s) be required to work in this position? __9__
(Minimum is 6 hours per week; typical is 9.)

Will it be possible for your student(s) to earn course credit? [ ] Yes [X] No
If yes, in which course? N/A **If yes, for how many credit hours?** N/A

Location of research/creative activities: Not restricted; may need computer access

Brief description of the nature of the research/creative activity:
The student will create dynamic visualizations used to study research questions regarding geodesics and polyhedral unfoldings.

Brief description of student responsibilities:
My assistant(s) will use a combination of Java, Mathematica, and/or Geogebra to create visualizations of geodesics and polyhedral unfoldings.

URCA Assistant positions are designed to provide students with *research or creative activities* experience. As such, there should be measurable, appropriate outcome goals. What exactly should your student(s) have learned by the end of this experience?
By the end of the semester my Assistant(s) will know basic results in the field of polyhedral geodesics and unfoldings, and will be fluent in at least one electronic format of visualizing these objects. Student will present results at the spring ISMAA conference.

Requirements of Students

If the position(s) require students to be available at certain times each week (as opposed to them being able to set their own hours), please indicate all required days and times:
Must be available for weekly hour-long meeting either before noon or between 4-5:30 on Tuesday or Thursday.

If the location of the research/creative activities involves off campus work, must students provide their own transportation?
N/A

Must students have taken any prerequisite classes? Please list classes and preferred grades:
Must have taken Math 223 (C or better) and have some Mathematica or object-oriented programming experience.

Other requirements or notes to applicants:
I prefer students with experience/interest using Java.