

DEPARTMENT OF MATHEMATICS

**VIGRE Funding Report**

(due 30 days after semester of support)

Semester/Summer and Year:

Fall 2008

Name: Brendan Fry

List the graduate courses you have taken this semester (including independent studies), your grades, and the instructors:

Course	Title	Grade	Instructor
MATH 527A	Principles of Analysis	A	Venkataramani, Shankar
MATH 575A	Numerical Analysis	A	Indik, Robert
MATH 583A	Methods of Applied Mathematics	A	Faris, William
MATH 586	Case studies in Applied Mathematics	A	Tabor, Michael

List the title, date and location of any talks you have given, either here or elsewhere:

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If you are working on your dissertation, include a one paragraph description of your research progress. If you have not yet begun dissertation research, describe your progress toward finding a dissertation topic and advisor and beginning that research.

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I will begin a term paper this spring semester with Dr. Alain Goriely in the Department of Applied Mathematics. I will be investigating models of tumor growth and the subsequent effect of chemotherapy treatment on the system. Hopefully this will lead to an interesting research topic to pursue further, but I am keeping an open mind for the moment as to what my dissertation topic will be and as to whom my dissertation advisor will be.

List publications, if any.

Check all activities you completed during the funded period:

Academics:

- Independent Study
- Oral Comprehensive Exam
- Commence Thesis Research
- Conference attendance
- Conference participation
- Complete PhD

Professional development and outreach:

- AP Calculus Visit
- High School Workshops
- Undergraduate Research Project
- Undergraduate Research Seminar
- Super TA
- Mentoring junior graduate students for the qualifying exams
- RTG (help organize)
- Research Seminar (help organize)

Other (please specify)

Attach a brief statment about your academic progress and professional development during the period of support.

## VIGRE FUNDING REPORT

I have spent the past semester as a first-year applied mathematics student taking the core courses and a laboratory class in fluid dynamics. I have not yet begun my dissertation work, but I look forward to examining my options this coming semester. I am enrolled in a class where faculty come to present research, so I will have the opportunity to see what is being done in the department. In addition, I will begin a term paper this spring semester with Dr. Alain Goriely in the Department of Applied Mathematics. I will be investigating models of tumor growth and the subsequent effect of chemotherapy treatment on the system. Hopefully this will lead to an interesting research topic to pursue further, but I am keeping an open mind for the moment as to what my dissertation topic will be and as to whom my dissertation advisor will be.