

DEPARTMENT OF MATHEMATICS

VIGRE Funding Report

(due 30 days after semester of support)

Semester/Summer and Year:

Summer 2009

Name:

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

Course	Title	Grade	Instructor
N/A			

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

N/A

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.

This summer was spent both finalizing a dissertation topic and preparing the appropriate forms for the IRB/Human Subjects Committee proposal. The topic of my dissertation will be "Indigenous and Latino Students' Developing Mathematical Identities". This study involves collecting data from human subjects and therefore requires approval before any data is to be collected. Preparing this proposal required an abstract of the study, a description of the methods, and a description of the analysis to be conducted. In addition, I was required to prepare and submit consent and assent forms for the subjects I wish to collect data from to be approved by the Human Subjects Committee. This proposal was completed and submitted on August 25, 2009 and is currently under review. In the meantime, I have established connections at the school where I wish to conduct my research. I've obtained approval of both the principal and the assistant principal. I've also met with the teachers whom I will be working with and have begun classroom visits to establish rapport with the students.

List publications, if any.

N/A

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)

Outreach activity- summer math club for middle school students at Hohokam middle school
Professional Development- Submitted paper presentation proposal 2010 American Educational Research Association Conference
Professional Development- Helped organize and conduct cross-site meeting with CEMELA fellows to prepare proposal for 2010 National Council for Teachers of Mathematics Conference.

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

Dissertation Progress

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Currently, I am awaiting approval from the IRB/Human Subjects Committee to commence data collection. Once approval is obtained, I will begin collecting data. I am continuing to visit the classrooms, establish rapport with the students and teachers, and have begun to organize the activities that these students will undertake when approval is obtained. I have also begun to write the first chapter of my dissertation, the theoretical framework and literature review.

Outreach Activities

In June of 2009, I participated in the summer math program for middle school students at Hohokam Middle School. At this program, the teacher and I provided students opportunities to play games and do activities involving math. These were opportunities for students to experience doing mathematics in ways other than those found in a typical math classroom. This experience has helped me gain experience in working with middle school students in a non-classroom atmosphere as well as obtain ideas for math activities for the students I wish to work with in my dissertation research.

Professional Development

In June of 2009, I helped to organize and conduct a meeting of CEMELA fellows from four sites: the University of Illinois-Chicago, the University of New Mexico, the University of California-Santa Cruz, and the University of Arizona. This meeting was held at the University of Arizona and its purpose was to conduct cross-site analysis of selected data from each site and to prepare a conference proposal for a session of presentations of research from the various sites. I helped to organize the schedule, set the agenda for each day, provide technical support, and conduct the meetings over the course of three days. This provided me with experience in leading a team of researchers from various sites in data analysis and the writing of a proposal. As a student-researcher aspiring to become a professor at a research I university, this provided me with experience working collaboratively with colleagues from multiple sites, the analysis of data, and the writing of a conference proposal all of which I will need to be comfortable with and proficient at as a professor at a major university.