



DEPARTMENT OF MATHEMATICS AND STATISTICS

4901 EVERGREEN ROAD
2014 CASL BLDG.
DEARBORN, MICHIGAN 48128-1491

December 18, 2015

Dear Prof. Beezer,

Please accept my application for participation in UTMOST during the 2017-2018 and 2018-2019 academic years. I applaud your efforts to study the use of open source software and textbooks and would be happy to participate in this study.

The open source textbook and sage software would be used in Math 227: Introduction to Linear Algebra at the University of Michigan-Dearborn. This three credit hour class is a first course in linear algebra for mathematics, science, and engineering majors. We usually offer 2 sections of Math 227 in Fall semesters and 2 sections in Winter. I have attached a letter with the support of my Department Chair and I will be scheduled to teach one section of Math 227 in 2017-2018 and a second section in 2018-2019. At this point, we are flexible in scheduling the semester for the indicated courses and could put them in either Fall or Winter.

I have extensive experience teaching linear algebra both at the undergraduate and graduate level here at UM-Dearborn. Most recently, I taught a graduate course in applied linear algebra during Winter 2015. I taught Math 227 in Fall 2012 and Fall 2004. I also have experience teaching 400 level courses in linear algebra for math majors and in numerical linear algebra.

Since my research is in numerical analysis, I have used many different types of mathematical software in my courses. I have used MatLab and Octave in linear algebra courses and in a wavelets course. In the calculus courses, I use Mathematica (as required by our department) and have also taught a programming course in Mathematica. I have programed in MatLab, C++, fortran, python, and java.

In the last three years, I have moved away from commercial software in my classroom and used sage extensively. I was asked to develop a programming course for our mathematics majors in the Fall of 2013 and wrote a set of ten sage notebooks that taught students how to program in sage and python. In many of my upper level courses, like numerical analysis, I have rewritten all my classroom demonstrations in sage so that students have easy and free access to both my

programs and to a programming environment. I have limited experience with SageMathCloud.

The University of Michigan-Dearborn is a public, four-year institution with approximately 7300 undergraduate students. Our total enrollment for 2014-2015 is 9193. We are an inclusive, student focused campus located in the metro Detroit region and 24% of our students identify themselves as students of color. The Department of Mathematics is housed in the College of Arts, Sciences, and Letters, but serves a large population of students from the College of Engineering and Computer Science. We have about 60 undergraduate mathematics majors and support a small master's program in Applied and Computational Mathematics.

If you have any questions or concerns about this application, please feel free to contact me at remski@umich.edu. I look forward to hearing from you.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Joan Remski', with a stylized flourish at the end.

Joan Remski, Ph.D
Associate Professor of Mathematics
Program Director, Applied and Computational Mathematics



COLLEGE OF
ARTS, SCIENCES, & LETTERS
UNIVERSITY OF MICHIGAN-DEARBORN

DEPARTMENT OF MATHEMATICS AND STATISTICS

December 21, 2015

Dear Professor Beezer,

I am providing this letter to support Professor Remski's application to the UTMOST project. The Department of Mathematics and Statistics at UM -Dearborn will schedule one section of Math 227 (Introduction to Linear Algebra) in each of the 2016-2017 and 2017-2018 academic years if she will be chosen to participate in the project.

If you have any questions, please feel free to contact me.

Sincerely,

Jennifer Zhao, Ph.D

Professor and Interim Chair
Department of Mathematics and Statistics