

Kelsey Rollag

Mobile phone 612-360-5713

Email address kmrollag@gmail.com

Education

Texas A&M University – College Station, Texas

Master of Science

Mechanical Engineering

Expected Graduation May 2017

Mechanical Engineering

College of Saint Benedict/Saint John's University – Saint Joseph, Minnesota

Bachelor of Arts Summa cum Laude

Applied Physics and Mathematics

Cumulative GPA: 3.92/4.0

Received May 2015

Research Experience

Honors Senior Thesis

College of Saint Benedict/Saint John's University

August 2014 through April 2015

Adam Whitten, Ph.D., Adjunct Assistant Professor

Project titled *Construction and Performance Testing of an Electricity Producing Wind Turbine*

Project involved complete construction of a 10-foot wind turbine and electronic control board

Data collection focused on performance testing of wind turbine under natural wind conditions

Formal thesis defense transpired upon completion of research project

Undergraduate Summer Research Assistant

University of Wisconsin-Madison

May 2014 through August 2014

Dante Fratta, Ph.D., Associate Professor

Worked for the geological engineering department in the Energy Geotechnics Research Experience for Undergraduates

Project consisted of infrared imaging of thermal conductivity of soil samples for applications in geothermal and wind energy

Presented research progress to the department on a weekly basis

Wrote and presented a formal research report upon completion of the program

Physics Summer Research Assistant

College of Saint Benedict/Saint John's University

May 2013 through August 2013

Dean Langley, Ph.D., Associate Professor

Project included recreating and modifying a variety of published research in optics for updating an intermediate physics lab

Primarily worked with a helium neon laser and a black body radiation experimental setup

Wrote multiple formal lab reports to be adapted as procedural lab write-ups for students in the intermediate physics lab

Teaching Experience

Graduate Teaching Assistant

Texas A&M University

September 2015 – Present

Grade assignments and manage online gradebook

Host office hours to assist students

Introductory Physics Teaching Assistant

College of Saint Benedict/Saint John's University

August 2013 through May 2015

Assisted in laboratory procedures and answered student questions

Administered grades on weekly laboratory reports

Physics Tutor

College of Saint Benedict/Saint John's University

August 2013 through May 2015

Tutored students one-on-one and in small groups for questions about lectures and assignments

Private Tutor

October 2014 through May 2015

Assisted a local high school senior with his college algebra and physics courses during multiple sessions per week

Communicated with the student's teachers and parents about upcoming exams, late assignments, etc

Monitored grades and homework submission on the high school's website

Awards and Honors

Phi Beta Kappa

College of Saint Benedict/Saint John's University Chapter

Thomas Shaefer Memorial Senior Thesis Award

Saint John's University Department of Physics

Dean's List

College of Saint Benedict/Saint John's University

Semester minimum of 3.8 GPA

Received December 2011, May 2012, December 2012, December 2013, May 2014,
December 2014, May 2015

MapCores (Mathematics, Physics, Computer Science Research Scholars) Scholarship

College of Saint Benedict/Saint John's University

Scholarship program for women interested in science

Participated in Honors First Year Seminar, Sophomore Problem Solving Seminar, Junior
Research Seminar, and Senior Research Project

Regent's and Trustee's Scholarship

College of Saint Benedict/Saint John's University

Semester minimum of 2.5 GPA

Tennant Company Scholarship

Tennant Company Golden Valley, MN

Semester minimum of 2.5 GPA

Activities**Conference for Undergraduate Women in Physics**

Purdue University

January 2015

Conference for Undergraduate Women in Physics

University of Illinois-Urbana Champagne

January 2013