

# KYLE ROSKOSKI

## EDUCATION

- Master of Science, Applied and Computational Mathematics** September 2005  
*University of Minnesota – Duluth, Duluth, Minnesota*  
Thesis: Leaf, Bud, and Branch Survival and Carbon Transportation in ECOPHYS
- Bachelor of Science, Computational Mathematics** December 2002  
**Bachelor of Science, Computer Science** December 2002  
Minor: **Management Information Systems**  
*University of Minnesota – Duluth, Duluth, Minnesota*

## TEACHING EXPERIENCE

- Senior Lecturer – School of Business and Economics** 2016 – Present  
*University of Wisconsin – Superior, Superior, WI*  
*Courses Taught:*  
**BUS 270 – Business Statistics, (Face-to-Face & Online)**  
**Math 151 – Calculus for Business, Life, and Social Sciences (Online)**
- Courses Developed:*  
**BUS 270 – Business Statistics, (Online)**  
**Math 151 – Calculus for Business, Life, and Social Sciences (Online)**
- Adjunct Faculty – Mathematics** 2009 - Present  
*College of St. Scholastica, Duluth, MN*  
*Courses Taught:*  
**MTH 1111 – College Algebra**  
Face-to-Face, Spring 2009, Fall 2009, Spring 2011 – Present  
Online, Spring 2015  
**MTH 1113 – Mathematical Models 1**  
Fall, 2011  
**MTH 1114 – Mathematical Models 2**  
Spring, 2012

**College in the Schools Mentor**

2009- Present

*Lake Superior College, Duluth, MN*

- Meet with high school teachers to discuss courses
- Review syllabi for consistency
- Answer teacher questions and help find solutions to problems

**Adjunct Faculty – Mathematics**

2008 - 2016

*Lake Superior College, Duluth, MN*

*Courses Taught:*

**FYE 1000 – Introduction to College**

Fall 2009, Fall 2011, Fall 2015

**MATH 450 – Pre-Algebra**

Fall 2009, Spring 2011, Fall 2012, Fall 2013

**MATH 460 – Algebra 1**

Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2013, Spring 2014, Fall 2014

**MATH 470 – Algebra 2**

Fall 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2012, Fall 2013, Spring 2015

**MATH 1105 – Mathematical Reasoning**

Fall 2016

**Upward Bound Program**

Summer 2009

**Adjunct Faculty – Mathematics**

2007 – 2008

*University of Minnesota - Duluth, Duluth, MN*

*Courses Taught:*

**STAT 1411 – Introduction to Statistics**

Fall 2007

**MATH 1005 – College Algebra**

Fall 2007, Fall 2008

**MATH 1296 – Calculus 1**

Fall 2008

**Mathematics Tutor**

1999 – 2002

*University of Minnesota – Duluth, Duluth, MN*

- Aided students in Calculus, Pre-calculus, Statistics, and other mathematics courses
- Achieved gold level tutoring certificate

## COURSE DEVELOPMENT

### Curriculum Developer

*SOPHIA Learning, Minneapolis, MN*

2015 - 2016

- Developed course curriculum for an online Foundation for College Algebra class
- Reviewed video tutorials to validate course alignment
- Validate alignment between instruction and assessment of course material

## PROFESSIONAL INDUSTRY EXPERIENCE

### Information Technology Professional

*Natural Resources Research Institute - University of Minnesota - Duluth*

2005 – 2008

- Provided computer support for all departments
- Developed and programmed website pages
- Maintained and improved a computer tree growth model
- Organized and analyzed large data sets
- Co-developed and implemented a photosynthesis model
- Assisted group members with various tasks

### Graduate Research Assistant

*University of Minnesota – Duluth*

2003 – 2005

- Developed bud set and branch death algorithms using weighted averages
- Wrote code correcting the carbon allocation algorithm in a computer tree growth model

### Undergraduate Research Assistant

*University of Minnesota – Duluth*

2001 – 2002

- Designed and performed test runs using a computer tree growth model
- Analyzed simulation results

### Customer Service Associate

*Kmart Corporation*

1997 - 2001

Duluth, Minnesota September 2000 - August 2001

Grand Rapids, Minnesota May 1997 - August 1998, May - August 1999, May - August 2000

- Aided customers in finding merchandise
- Worked at service desk resolving customer problems

## PUBLICATIONS

Host, G.E., H.W. Stech, K.E. Lenz, K. Roskoski, R. Mather (2008). Forest patch modeling: using high performance computing to simulate aboveground interactions among individual trees. *Functional Plant Biology* **35**, 976-987.

Host, G.E., H.W. Stech, K.E. Lenz, K. Roskoski, R. Mather, M. Donahue (2007). Leaves to Landscapes: using high performance computing to assess patch-scale forest response to regional temperature and trace gas gradients. *Proceedings, 5th international workshop on functional-structural plant models; 2007 November 4-9; Napier, New Zealand*

Lenz, K.E., G.E. Host, K. Roskoski, A. Noormets, A. Sober, D.F. Karnosky (2009). Analysis of a Farquhar-von Caemmerer-Berry leaf-level photosynthetic rate model for *Populus Tremuloides* in the context of modeling and measurement limitations. *Environmental Pollution* **158**, 1015-1022.

### **CONFERENCES ATTENDED**

*MinnMATYC, Duluth, MN*

April 2010, April 2011

### **COMPETENT SKILLS**

*Learning Management Systems:*

Desire to Learn (D2L),  
Blackboard

*Online Homework Systems:*

MyStatLab (MyMathLab)  
Aplia  
WebAssign

### **COMMUNITY SERVICE**

**The River Church**

Youth group leader  
Member of the Men's ministry team

2017 - Present