

# Jered B Bright

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## EDUCATION:

### **Bachelor of Science in Mathematics with Education Emphasis**

**University of Minnesota**

Institute of Technology

Minors in Statistics, Astrophysics, and Spanish Studies

GPA 3.440

Minneapolis, Minnesota

September 2006-May 2010

Enrolled in DirecTrack to Teaching

### **Masters of Science in Mathematics with Education Emphasis**

**University of Minnesota**

Graduate School

GPA 3.242

Minneapolis, Minnesota

Expected Graduation: June 2012

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## EXPERIENCE

**University of Minnesota**

**School of Mathematics**

Teaching Assistant (TA)/Teaching Specialist (TS)

*Minneapolis, Minnesota*

*September 2010-Present*

- Fall 2010: Led two sections of Math 1371, College of Science and Engineering Calculus I which focuses on group learning.
- Spring 2011: Originally hired to lead one section of Math 1372, College of Science and Engineering Calculus II, but was asked to be a long term substitute for a section of Math 2574H, Honors Calculus IV.
- Summer 2011: Instructed one section of Math 1271 Calculus I and designed all course materials including exams.
- Fall 2011: Lead one section of Math 1372 Calculus II with an emphasis on problem solving.

**Math Center for Educational Programs**

*Minneapolis, Minnesota*

**University of Minnesota Talented Youth in Mathematics Program (UMTYMP)**

UMTYMP Calculus I Workshop Leader

*September 2011-present*

- Lead a one hour section in which students work collaboratively on challenging extension problems from the course.
- Responsible for grading homework and tests in a timely manner and relaying any information to the Program Coordinator.

UMTYMP Teaching Assistant

*August 2008 – May 2010*

- Worked with students from grades 6-9 enrolled in the UMTYMP Algebra I/II and the Geometry/Math Analysis sequences by answering questions during class and being an additional resource for the students. Answered any questions the students had via email regarding homework or WeBWorK (online homework component).
- Graded weekly quizzes, returning them within the class period to the students, and graded selected problems from the assigned homework by the next class period.

**Breakthrough Saint Paul**

*Saint Paul, Minnesota*

**School Year and Summer Program**

*September 2009 – August 2010*

Aspiring Teacher

- During the school year program, taught a mathematics course of my own creation to middle school students in grades 7 and 8. The course was titled "Navigating Mathematics." In the boat-themed course, students further developed their geometry and problem solving skills in the six class periods.
- In the summer component of the program, was originally contracted to teach in the math department, but was asked to be a science teacher for the summer and designed a physics course with a superhero theme called "Superhero Physics."
- Was an adviser to ten students in the program and worked with them to ensure that they met the program benchmarks.

**University of Minnesota Libraries**

*Minneapolis, Minnesota*

**SMART Learning Commons**

Peer Assisted Learning (PAL) Facilitator

*August 2009 – December 2009*

- Held weekly PAL sessions for two sections of Math 1051, Precalculus 1. Incorporated suggested problems from the professor into activities which ranged from worksheets to games, where the main focus of the session is peer learning.
- During the sessions, acted as a facilitator by redirecting questions to other members of the class and clarifying any points of confusion the students may have.

PAL Mathematics Team Lead and Facilitator

*December 2009 - May 2010*

- Continued to hold PAL sessions for Math 1271, Calculus I, three times each week. Chose problems with care for the students to work on in groups. Students would collaborate and while I would carefully monitor the groups.
- Led weekly meetings of all the Math Facilitators either in person or generated a topic of discussion for the facilitators to respond to on a wiki to continue to develop their professional skills.

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## OTHER EXPERIENCE

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### SOUTH HIGH SCHOOL

*Minneapolis, Minnesota*

#### Math Department

*October 2008 – December 2008*

##### Volunteer/Classroom Assistant to Mrs. Tara FitzGerald

*(612) 668-4300*

- Completed 50 hours of classroom observation, attending two days a week, by working with students on a one-on-one basis or in groups that were enrolled in an Advanced Algebra (Algebra II).
- Observed the teacher to learn effective teaching strategies and gain a foundation to build upon for a future teaching career.

### AVALON CHARTER SCHOOL

*Saint Paul, Minnesota*

#### Math Department

*January 2009 – May 2009*

##### Volunteer and Classroom Assistant to Mrs. Laura Connell

*(651) 649-5495 ext. 201*

- Completed 50 hours of classroom observation, attending once a week, by working with students on a one-on-one basis who were enrolled in Algebra I, Geometry, or Precalculus classes.
- The students were from various backgrounds, though the most were Caucasian or African American.

### EDISON HIGH SCHOOL

*Minneapolis, Minnesota*

#### Math and Social Studies Departments

*January – May 2007*

##### Volunteer and Classroom Assistant

- Assisted students enrolled in bilingual (Spanish – English) Geometry and U.S. History courses to help them better understand the material covered in these classes, specifically noting the experiences of the Chicano/Latino students within the classroom.
- Observed teachers to learn teaching strategies on how to better approach multilingualistic classes.

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## AWARDS

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- John Bowers Excellence in Teaching Assistance Award

- Iron Range Scholarship

- Science and Engineering Student Board Outstanding Teaching Assistant Award

- Exceptional Service Award

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## TECHNICAL SKILLS

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- Speaks English natively

- Proficient in Spanish

- HTML proficient

- Microsoft Office

- LaTeX proficient

- Mathematica proficient

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## ACTIVITIES AND ORGANIZATIONS

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### American Mathematical Society

#### Member

*September 2010-present*

### National Council of Teachers of Mathematics

#### Member

*June 2011-present*

### Minnesota Council of Teachers of Mathematics

#### Member

*October 2011-present*

### Breakthrough Saint Paul

#### Volunteer

*Saint Paul, Minnesota*

*September 2010– May 2011*

### Institute of Technology Student Publications (*The Minnesota Technologist*)

#### Editor-In-Chief

*Minneapolis, Minnesota*

*November 2007-May 2009*

- Edited articles based on technology when submitted, relaying them to the graphic designers for publication.
- Wrote and submitted an editorial to be published with the issue.
- Assisted with pre-publication and distribution process as well as any event publicizing the organization.

### Spanish and Portuguese Across Cultures Organization (SPACO)

*Minneapolis, Minnesota*

#### Social Committee Co-Chair

*September 2007-December 2008*

- Planned and executed of all social activities for the organization.
- Successfully planned multiple dinner and a movie nights for members and “Salsa Night” where members and non-members alike came to learn how to salsa dance.

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## RELATED COURSEWORK

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- Learning, Cognition, and Assessment

- Technology for Teaching and Learning

- Teaching Special Needs Students

- Applied Linear Algebra

- Dynamical Systems and Chaos

- Geometry I/II

- Intro to Combinatorics

- Cryptology and Number Theory

- Enumerative Combinatorics

- Intro to Probability and Statistics

- Data Analysis

- Theory of Statistics I/II

- Introduction to Modern Algebra

- Introduction to Topology

- Computational Algebraic Geometry

- Advanced Calculus

- Ordinary Differential Equations

- Complex Analysis