

# Peter Solfest

7608 Peltier Lake Drive, Lino Lakes, MN 55038

pmsolfest@gmail.com

phone: (651) 325-8903

## Summary

Recent graduate with a strong background in applied and computational mathematics, and a solid understanding of physics. Pursuing a career which leverages these skills to develop and improve mathematical models and software utilizing numeric techniques.

## Education

- **University of Minnesota - Twin Cities** Minneapolis, MN  
*Ph.D. Scientific Computation; GPA: 4.00 (no longer pursuing)* Aug. 2014 – Mar. 2015  
– Advisor: Dr. Yousef Saad
- **Michigan Technological University** Houghton, MI  
*M.S. Applied Mathematics; GPA: 4.00* Aug. 2012 – June 2014  
– Advisor: Dr. Jiguang Sun
- **Michigan Technological University** Houghton, MI  
*B.S. in Physics and Applied/Computational Mathematics; GPA: 3.94* Aug. 2008 – Apr. 2012  
– Graduated Summa Cum Laude

## Research Experience

- **Senior Research (BS degree)** Houghton, MI  
*Computational analysis of spectra arising from Mo doped Tungstenite* 2011 - 2012  
– Advisor: Dr. John Jaszczak
- **Lunar and Planetary Space Academy** NASA - Goddard, MD  
*Instrumentation development for space based Gamma Ray Spectroscopy* Summer 2011  
– Mentor: Dr. Ann Parsons
- **Yap Research Group** Michigan Tech  
*Boron Nitride Nanotube (BNNT) synthesis and application* Summer 2010

## Work Experience

- **Calculus Instructor** Michigan Tech Dept. of Mathematics  
*Calculus 1 and 2* Jan 2013 – June 2014 (4 semesters)  
– Responsibilities: Lecture, Grade, lead study sessions, write exams  
– Calc 1 (Spring 2013 - Spring 2014), Calc 2 (Summer 2014)
- **Lab TA** Michigan Tech  
*Introductory Mechanics, Electronics, Mathematica* Aug 2009 – Apr. 2012  
– Responsibilities: grade labs; lead lab sections; assist students with Mathematica  
– Mathlab (Aug 2009 - Apr 2011), Mechanics (Aug 2010 - Dec 2011), Electronics (Jan 2012 - May 2012)

## Skills

- **Software:** GNU Octave, Linux, L<sup>A</sup>T<sub>E</sub>X, Mathematica, git, BASH
- **Programming Languages:** MATLAB, C, Java, Python

## Achievements

- **Outstanding Teaching Award** Michigan Tech Dept. of Mathematics  
*Graduate Level* 2014
- **Co-Recipient of Ian W. Shepherd award** Michigan Tech Dept. of Pysics  
*"presented each year to the most outstanding physics graduate(s)"* 2012
- **Departmental Scholar** Michigan Tech Dept. of Pysics  
2011

## Extra Curricular Activities

- **Broomball**
- *Player (2009 - 2015) and Team Captain (2011-2014)*
- **SPS Member**
- *Public outreach explaining physics concepts to elementary students*