

Peter Solfest

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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^AT_EX, 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 Physics
"presented each year to the most outstanding physics graduate(s)" 2012
- **Departmental Scholar** Michigan Tech Dept. of Physics
2011

Extra Curricular Activities

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