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**Madison Address**

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**Permanent Address**

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**EDUCATION**

- **UW Madison**, Madison, WI; September 2012 through present, 3.5 GPA. Doctorate of Organic Chemistry, expected Summer 2017
- **Northland College**, Ashland, WI; September 2008 through May 2012, 3.9 GPA. Bachelor of Science, Chemistry and Biology, May 2012.
- **Tremper High School**, Kenosha, WI; graduated June 2008; GPA over 5.7 on 6.0 scale, over 3.8 on 4.0 scale; rank: 12<sup>th</sup> of nearly 500 students.

**SCIENCE FIELD EXPERIENCE**

**UW-Madison**

- Intro to Organic Lab TA—September 2012 through present
- Joint student with David Schwartz and Mahesh Mahanthappa
- Trained in optical mapping, nanocoding and DNA flap synthesis

**Northland College**

- Workstudy at Sigurd Olson Environmental Institute, Ashland, WI —college freshman: 6 hrs per week researching environmental issues, monitoring birds at specific points in Ashland County for the Ashland Airport, monitoring groundwater levels at a hay field for the US Department of Transportation, creating a Google Map of lakes to be monitored for the 2010 WI Loon Population Survey (WLPS), etc.
- LoonWatch volunteer—college sophomore: ½ hr per week updating the 2010 WLPS Google Map and sending confirmation email to volunteers.
- Student tutor for biology and chemistry—college sophomore-senior: 4 hrs per week
- Northern shrike research, volunteered helping Professor Jim Paruk—college freshman: 1 hr per week.
- Eco-toxicity research his on discarded cigarette butts, volunteered helping Professor Rick Dowd—college sophomore: 1 hr per week
- Chemistry lab preparations, volunteered for Sharon Anthony and Rick Dowd—college freshman: 1 hr per week
- Helped Professor Anthony Kern develop American Hazelnut DNA primers for single sequence repeats—college junior: 4 hrs per week
- Personal Senior capstone research project (ongoing) determining age through pentosidine concentrations in skin samples from common loons—college freshman, sophomore, junior and senior: 4 hrs per week
- Ecological Quantitative Analysis teaching assistant—college senior: 4 hours per week for one semester

**Tremper High School**

- Chemistry teaching assistant—11<sup>th</sup> grade: 7.5 hrs per week for one quarter
- Science Olympiad—10<sup>th</sup> - 12<sup>th</sup>, (also 7<sup>th</sup> & 8<sup>th</sup>) grades: 1hr per week, placed in 3 events.

**Other Experience**

- Linwood Springs Research Center Raptor/Owl Field Techniques class—2 week-long classes the summer of 2006 and fall of 2007
- International Wolf Center Wolf seminar, weeklong workshop the summer of 2005
- NSF-funded chemistry REU internship at SIUC working for Dr. Matthew McCarroll developing and testing a novel dye-sensitized solar cell
- Center for Ethical Leadership and Service and Stewardship Level 2 Leadership Training—daylong workshop my sophomore year of college

## **MUSIC ACTIVITIES**

### **Northland College**

- Symphonic Band, freshman-senior: 2 hrs per week.
- Jazz Band, freshman-senior: 2 hrs per week.
- College Pep Band, freshman & sophomore: 1 hr per week for 4 months
- Chequamegon Symphony Orchestra: college sophomore and senior (winter semester): 2.5 hrs per week.

### **Tremper High School**

- Symphonic Band—6<sup>th</sup>-12<sup>th</sup> grade: 3.5-7.5 hrs per week.
- Jazz, 9<sup>th</sup>-12<sup>th</sup> grade: 1.5 hrs per week.
- Pep Band—9<sup>th</sup>-12<sup>th</sup> grade: 1 hr per week for 2 months
- KUSD Summer Marching Band—summer after 7<sup>th</sup> and 11<sup>th</sup> grade: 9 hrs per week
- Private lessons for trombone—7<sup>th</sup>-12<sup>th</sup> grade: ½ hr per week
- Lincoln Middle School Band, 7<sup>th</sup> & 8<sup>th</sup> grade: 2.5 hrs per week
- Solo and Ensemble Competition 9<sup>th</sup>-12<sup>th</sup> grade (1\* for 11<sup>th</sup> grade solo, and 12<sup>th</sup> grade trombone quartet and brass choir; 1 for 9<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade solos)

## **OTHER EXTRACURRICULAR ACTIVITIES**

### **Northland College**

- Intramural Broomball, college sophomore: 1 hr per week for 4 weeks
- Intramural Basketball, college sophomore: 1 hr per week for 3 weeks
- Outdoor Orientation backpacking trip leader, college junior and senior: all day for 5 days
- Democracy Matters member, college senior: 1 hr per week

### **Tremper High School**

- Comedy Sportz High School League: 11<sup>th</sup> grade: 1hr per week
- Tremper High School Comedy Improv Club: 11<sup>th</sup>-12<sup>th</sup> grade: 1 hr per week (two shows put on with all money raised donated to charity)

## **COMMUNITY ACTIVITIES**

- Fright night (performing interesting chemistry experiments for elementary school students)—college freshman, sophomore, junior and senior: ½ hr per week for 4 weeks
- Volunteered at Kenosha Obama campaign office—summer of 2008: 10 hrs per week
- Played trombone at nursing homes with math professor and students—college freshman, sophomore, junior and senior winter: 1 hr per week, spring: same
- Group Workcamps Foundation's work camp (similar to Habitat for Humanity)—summer of 2005: 5 days
- Monitored bluebird boxes— April-August 2005-2009: ½ hr per week.
- Boy Scouts of America Venture crew—9<sup>th</sup> & 10<sup>th</sup> grade: 1 hr per week, plus excursions.

- Humane Society, Kenosha, exercised dogs: 1 hr per week.

## **HONORS & ACHIEVEMENTS**

- Northland College Dean's List all semesters.
- *Alpha Chi* National College Honor Scholarship Society member
- 5 AP tests (Scores on a scale of 5: Biology-5, Calculus AB-5, Psychology-5, World History-4, US Government & Politics-4)
- Poem and an essay published in scholarship competitions
- Wisconsin PTA Reflections winner for photography, music, and literature, 9th grade.