

# Wade C. Fuerste

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## Education

**Majors** B.S. Chemistry (ACS certified), B.A. Mathematics (Applied Track)

**Minor** Physics

University of St. Thomas, St. Paul, MN

May 2016

GPA = 3.79

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## Research Experience

**University of St. Thomas**, St. Paul, MN

*Physical Chemist*

June 2015-Present

- Semi-empirical equation parameters were manipulated and run with large data sets of CCCH-molecular energies to match coupled cluster data.
- Wrote programs for bulk data movement and manipulation in C, C-Shell, and Fortran-99 while operating a linux OS. Advisor: Dr. Joshua P. Layfield

*Analytical Chemist*

May-June 2013

- Synthesized ferrofluid and mechanically manipulated it via magnets to accurately reproduce fluid displacement within a capillary. Picometric volumes of dyes needed to be created and moved through an excitation laser to measure picometric titrations by fluorescence. Advisor: Dr. Gary A. Mabbott

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## Leadership Experience

**Residential Senator-** Undergraduate Student Government

2012-2013

University of St. Thomas

- Representative of the on-campus students
- Actively sought and listened to the needs of on-campus students and brought these issues to the attention of the student government
- Participated in meetings and committees that organized university funds for student activities as well as meetings that updated student government policies

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## Other Work Experience

**Aquatic-Center Maintenance**

2011 - 2012

University of St. Thomas

- Learned skills and machine operation for the maintenance of the University's pool
- Communicated with other employees for work rescheduling

**Student Note-Taker**

Feb.-May 2015

University of St. Thomas

- Maintained complete attendance and active note taking within a course. Copies of these notes were made and then given to students with mental disabilities

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**Campus Involvement****Collegiate Swim Team**

2011-2015

University of St. Thomas

- Reinforced work ethic
- Required strict time management outside of the pool
- Learned dedication to personal goal achievement and team progress
- Annual participation with multiple volunteer activities and charities
- 2012 & 2015 MIAC Champions

**Chemistry Club**

2012-Present

University of St. Thomas

- ACS Chapter
- On campus involvement with volunteer and recreational activities

**Student Life Committee**

2013-2014

University of St. Thomas

- Discussed issues and topics on how to improve the student life at the university

**Resident Hall Association**

2012-2013

University of St. Thomas

- Participated in group meetings that planned both recreational dorm hall events and volunteer services

**Orchestra**

2011-2013

University of St. Thomas

- Practiced and performed with the University of St. Thomas string orchestra
- Required time management outside of official practice hours to ensure peak performance

**Sigma Tau Omega**

2011-2013

University of St. Thomas

- Service fraternity dedicated to developing students into gentlemen as well as skills in wilderness survival
- Activities included camping retreats and trail cleanup in state parks and forests

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**Volunteer Experience****Assistant EMT**

August 2014

Jackson County Regional Health Center, Maquoketa, IA

- Assisted on-staff EMTs and paramedics while on emergency calls
- Scribed and assisted EMTs, paramedics, nurses, and doctors while in the E.R.

**Assistant EMT**

August 2014

Loras All-Sports Camp, Dubuque, IA

- Worked with on-staff athletic trainers tending to injured campers

**The CRUDEM Foundation**

August 2013

Hôpital Sacré Coeur, Milot, Haiti

- Learned to operate optical instruments such as tonometer and keratometer
- Screened patient's vision and recorded optical measurements
- Assisted operating room set up with necessary equipment
- Worked effectively with physicians and translators

**Renovation**

Nov. 2012

Urban Homeworks, Minneapolis, MN

- Collaborated with other volunteers to renovate an apartment complex

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**Poster Presentations**

- "Astrochemical Vibrations," Wade Fuerste, Nik Larson, Joshua P. Layfield, 2015 **ACTC Chemistry Summer Symposium-St. Paul, MN.**

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**Honors and Awards**

- Hypercube Scholar Award in Computational Chemistry 2015
  - Swim and Dive Team Corbett-Walton Award 2014
  - Delta Epsilon Sigma- National Scholastic Honor Society 2013-Present
  - Omicron Delta Kappa- National Leadership Honor Society 2013-Present
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