

# Michal T. Ruprecht

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## CAREER OBJECTIVES

I'm a first generation American and soaring college freshman at the University of Michigan. I'm majoring in chemistry and on the pre-med track. I'm interested in medical journalism and am passionate about diverse learning environments, underserved communities, and learning about other people's struggles. I'm looking for research opportunities that include or combine my passions for chemistry, medicine, and writing.

## EDUCATION

### University of Michigan, Ann Arbor, MI

SEPTEMBER 2018 - MAY 2022

- Admitted under first round of early action applications.
- Michigan Community Scholars Program Member.

### Grosse Pointe North High School, Grosse Pointe, MI

SEPTEMBER 2014 - JUNE 2018

- Graduated Summa Cum Laude.
- Positively sloping GPA. Cumulative GPA of 4.21.
- 30 ACT Composite Score.
- Member of the National Honors Society chapter at GPN HS.
- Multiple AP courses sophomore through senior year. 10 credits in 3 years.

## WORK EXPERIENCE

### Editor-at-Large — North Pointe Newspaper, Grosse Pointe, MI

MARCH 2015 - JUNE 2018

Solved production problems, assigned stories, designed and edited pages, wrote and edited stories, served on the editorial board, sold ads, and trained staff.

### Lifeguard — George Osius Municipal Park, Grosse Pointe, MI

MAY 2016 - SEPTEMBER 2017

Cleaned, watched patrons, assisted swimmers at meets, and kept up on skills and fitness. Lifesaving and CPR certified by Red Cross.

## ACTIVITIES

### Research Assistant — University of Detroit Mercy, Detroit, MI

Inspired by the Flint water crisis and green chemistry to create ligand that could pull metal ions out of aqueous solution. Collaborated with team to present and publish research. Supervised by Dr. Mark Benvenuto.

### NeuroLab Scholar — Coastal Marine Biolabs, Ventura, CA

Received full-tuition scholarship and conducted extensive, 10-day developmental neuroscience research. Controlled gene expression in in-vivo model organism. Collaborated with the scientific community, including predecessors in the program, to present research and publish data. Supervised by Dr. Ralph Imondi and Dr. Linda Santschi.

### Research Assistant — Wayne State University School of Medicine, Detroit, MI

Examined the role of gene expression in bacterial keratitis. Supervised by Dr. Shunbin Xu.

### Social Media Editor and Contributing Web Editor — American Chemical Society Division of Environmental Chemistry

Restored struggling division, created social media presence and profile series to promote the division, and set division up for continued success.

### President and officer — GPN HS Chemistry Club and Health Career Investigations Club, Grosse Pointe, MI

Restored struggling clubs, grew membership by 233% and number of projects by 300%, created social media presence and websites, and set clubs up for continued success. Presented at numerous events.

## HONORS AND AWARDS

- Youngest presenter at the American Chemical Society National Meeting in Boston
- Youngest recipient of the ACS CIBA Travel Grant in Green Chemistry
- NeuroLab Scholar
- Honored at the Metro Detroit Youth Day and by Ascension Health, the ACS Detroit Rubber Group, Engineering Society of Detroit, and Lusk Albertson Law Firm
- G. John and Elizabeth Stevens Volunteer Award
- Individual Michigan Interscholastic Press Association awards for news and feature writing
- Network of Educators in Science and Technology Student Award from MIT
- AP Scholar with Distinction Award
- National Scholastic Press Association Honor Roll of Student Journalists

## REFERENCES

References available upon request. Email me at [me@MichalRuprecht.com](mailto:me@MichalRuprecht.com) to request references.

**Member** — *American Chemical Society & Engineering Society of Detroit*

**Volunteer and shadower** — *Ascension St. John Hospital, Detroit, MI*

Over 190 hours of volunteering in the Emergency Department and shadowing physicians and PAs in seven specialties. Received award for work.

**Team America Rocketry Challenge Participant**

Led team to design, construct, and successfully launch model rocket to 800 feet and return two uncracked raw hen eggs using an Aerotech engine.

**Violin Player** — *GPN HS and Grosse Pointe Symphony Orchestras, Grosse Pointe, MI*

Played advanced music along with professional musicians and participated in seasonal Grosse Pointe Symphony Orchestra Concerts. Performed with GPN HS Symphony Orchestra freshman year.

**Swimmer** — *GPN HS Varsity Team, GP Gators Swim Club, and GP Shores Sharks, Grosse Pointe, MI*

Assisted coaches with time management by ushering young swimmers during meets.

#### **PUBLICATIONS AND PRESENTATIONS**

Ruprecht, M. T., Berger, M., Goldfarb, J. L., Fitzgerald, P. R., Karod, M., Kohn, C., . . . Wathen, S. P. (2018). *Green Chemistry Education: Recent Developments* (Vol. 4, Green Chemical Processing) (M. A. Benvenuto & L. Kolopajlo, Eds.). De Gruyter.

Ruprecht, M. T. (2018, August). *Synthesis of "three-legged" tri-dentate podand ligands incorporating long-chain aliphatic moieties, for water remediators, and for isolating metal ions in non-aqueous solution*. Presented at Sci-Mix and Water Reuse & Recycling: Innovative Solutions for Treatment & Implementation poster sessions at the 256<sup>th</sup> American Chemical Society National Meeting, Boston, Massachusetts.

Benvenuto, Mark Anthony, Kosmas, Steven P., Pothoof, Justin, **Ruprecht, M. T.**, Sosnowski, Ben M., & Fitzgerald, Polly R. (2017, June). *Production of a new series of ligands with potential to act as water remediators*. Poster session presented at the annual American Chemical Society Central Region Conference, Dearborn, Michigan.