STUDENT 002

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**Education**

Lake Forest College, Lake Forest, IL Expected May 2019

*Major: Chemistry Minor: Psychology*

Radboud Univeristy, Nijmegen, The Netherlands Spring 2018

Illinois Math and Science Academy, Aurora, IL June 2015 **Research Experience**

**Organic Chemistry Research**, Lake Forest College - Lake Forest, IL Aug.2018 - May 2019

* Researched organic synthetic pathways towards the anti-malarial natural product, chaetoxanthone B.
* Designed and carried out reactions based on primary literature search and analyzed products using 1H NMR.

**REU Research Assistant McMahon Lab**, University of Wisconsin - Madison, WI May 2017 – Aug.2017

* Assisted and conducted NSF funded research towards the synthesis of highly reactive organic species to provide insight into the nature of interstellar media.
* Learned lab techniques such as: Running a silica gel column Working with air sensitive materials/reactions using a Schlenk Line.
* Summarized 10-week long research and presented results as a poster at symposium.

**Richter Scholar**, Lake Forest College - Lake Forest, IL May 2016-July 2016

* Provided new insight on longitudinal study of African Education and Language using primary literature.
* Developed 60-question, multi-dimensional survey to collect data on students' experiences in education.
* Coordinated with research team and external partners to design and pilot student survey.

**Chemistry Lab TA**, Lake Forest College – Lake Forest, IL Aug. 2016 – Dec. 2018

* Guided 10+ students through lab by answering questions about technical skills and applicable concepts in general and organic chemistry.
* Assisted with the setup, troubleshooting, and take down of instruments like FT-NMR, UV-Vis spectrometer, and Gas Chromatograph.

**Resident Assistant**, Lake Forest College - Lake forest, IL Aug. 2016 – May 2019

* Aided upperclassmen and transfer students by listening to their unique struggles and guiding them to the appropriate on-campus resources.
* Regularly submitted organized documentation for weekly events, duty logs, and incident reports.
* Planned and executed campus/hall events for residents including submitting required documentation and coordinating with Residence Life staff and participating faculty.

**Relevant coursework**

**Instrumental Analysis**, Lake Forest College Dept. of Chemistry

* Learned experimental design, limitations, and troubleshooting techniques for FTIR, UV-vis & fluorescent spectroscopy, HPLC, GC, and voltammetry.
* Regularly kept organized lab notebook of all experiments.
* Learned theory and physical properties measured by different instruments.

**Research Methods and Statistics**, Lake Forest College Dept. of Psych.

* Learned limits and benefits of various experimental designs and methodology.
* Performed primary literature search and critical analysis.
* Became proficient in SPSS.

**Biotechnology of Plants**, Radboud University-Nijmegen

* Learned theory and ethics pertaining to plant genetic modification.
* Conducted experiments genetically modifying plants via particle bombardment and *Agrobacterium* mediated plant transformation.
* Distinguished between wild-type and genetically modified plants through GUS staining and seed germination on kanamycin.
* Distinguished between different siblings and populations of plants via DNA barcoding.

**Laboratory Skills/Equipment**

***Instruments:***

Varian Inoca 400 MHz FT-NMR Spectrometer

Ocean Optics UV-Vis Spectrometer

CEM Benchmate Microwave

Diode-Array Spectrophotometer

Thermo Nicolet 360 FT-IR Spectrometer

Biotage Isolera Spektra One

Biotage V-10 Touch

***Software:***

Microsoft Office

Spartan 14

KaleidaGraph

ACD/Labs NMR 12.0

***Lab Skills:***

Simple Distillation

Extraction

Rotary Evaporation

(Prep)Thin Layer Chromatography

Column Chromatography

Filtration

Gel Electrophoresis

Particle Bombardment

*Agrobacterium* Mediated plant transformation

Crystallization

Schlenk Line

**Leadership Experience**

*Executive Board*, **Latinos Unidos** June 2016 – May 2019

* *Treasurer:* Managed a $2,000 semesterly budget, submitted regular, itemized budget requests, and ensured all events remained on budget.
* *President& Vice President:* Planed and organized weekly general meetings regarding Latinx culture, volunteer trips in Chicago and local schools, executive meetings, and campus wide events including fundraisers and panels.

*Member*, **Intercultural Advisory Group** Aug. 2016 - Dec. 2018

* Presidentially sanctioned group of 10 students, faculty, and staff in charge of monitoring the college's initiatives, programs and practices relating to intercultural relations and diversity.
* Facilitated discussions on any concerns surrounding those initiatives, programs and practices.
* Analyzed and interpreted data from longitudinal student surveys dating back 20 years.

**Honors/Awards**

**Carnegie Modern Language Scholarship**, Lake Forest College

* Awarded to students dedicated to learning modern languages.

**Presidential Scholarship**, Lake Forest College - Lake Forest, IL

* Awarded to students who exemplify outstanding academic performance.

**Global Youth Summit on the Future of Medicine**, Brandeis University - Waltham, MA

* Extremely competitive, 7-day, residential program for 200 elite high school students from around the world with demonstrated leadership and interest in medicine and science.

**Elizabeth W. Fischer Prize**

* Established in honor of Elizabeth W. Fischer, advisor to the Class of 1998 and Dean of the College from 1994–2002. The recipient must have attended Lake Forest College for four years, must have attained a minimum GPA of 3.0, and must have excelled in academics and co-curricular activities.

**ACS Organic Chemistry Award**

* Awarded to a top graduating senior student majoring in either chemistry or biochemistry who has demonstrated excellence in organic chemistry based on a combination of research experience, coursework and a desire to pursue a career in chemistry