

POLY311

EDUCATION:

Masters in Applied Chemistry – University of Oregon – Eugene, OR

September 2018

Bachelor of Science – McPherson College – McPherson, KS

June 2014

- Major: Biochemistry
- *Cum Laude*

PROFESSIONAL EXPERIENCE:

Chemical Analyst – Pfizer – McPherson, KS

November 2015 - June 2017

- Performed analytical testing on 64 product families and 480 configurations by following company guidelines and SOP's, and as a Controlled Drug Agent, worked with 10 product families that are DEA schedule II/III/IV/V/List 1.
- Worked in a cGMP laboratory performing assay, degradant and impurity testing on bulk, final release and stability samples to ensure specifications met within tolerance by analytical techniques such as HPLC, UPLC, GC, UV-Vis and FTIR. Met the accuracy and precision of methods 99% of the time.
- Provided detailed records for FDA, DEA, safety and environmental purposes by following standard operating procedures and experimental guidelines to ensure drug product complied with USP, EP and JP requirements.
- Documented data and results following cGMP guidelines, mentored newer colleagues to familiarize themselves with the necessary analytical techniques, as well as reviewed and released documentation completed by colleagues to ensure proper guidelines had been followed.
- Maintained integrity of HPLCs and UPLCs by performing daily, monthly, and annual maintenance as well as troubleshooting instrumentation when problems would occur. Requested mentorship and training on new instrumentation and lab techniques whenever possible.
- Experienced working under and adapting to dynamic scheduling conditions through communication with relevant departments and supervisors about upcoming product testing, and worked overnight schedule in effort to quickly and effectively release bulk product on time.
- Ensured lab was ready for upcoming shift by cleaning glassware, prepping reagents, sample and standard solutions, setting up instrumentation, and notifying colleagues of any changes in schedule.

Quality Control – Bootlegger's Brewery – Fullerton, CA

Seasonal 2011-2015

- Worked in a lab setting within a brewery, counting yeast cells with a hemocytometer and consulting with the head brewer to determine whether the product was ready to be packaged.
- Ensured safe working conditions by regularly cleaning the brewery warehouse, tasting room, and cold storage facilities.
- Experienced working with numerous types of hazardous chemicals within the brewery for sanitizing purposes, including caustic, acids, additives and other related chemicals.

AWARDS/ACHIEVEMENTS:

Burkholder Research Award (2014)

Kansas Academy of Science Student Research Oral Presentation 3rd Place

Scholar Athlete (Tennis)

Provost Scholarship (Academics)

Eagle Scout (2008)

SCIENTIFIC PUBLICATIONS: De Young, S., and D. J. Wilgers. 2016. The effects of male competition on the expression and success of alternative mating tactics in the wolf spider *Rabidosa punctulata*. *Journal of Arachnology*. 44: 380-387

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STUDENT RESEARCH – WILGERS RESEARCH LAB, MCPHERSON COLLEGE

February 2013-May 2014

- Investigated wolf spider mating behaviors by collecting spiders in the wild, raising spiders to appropriate age, identifying sex of specimens, and subsequently introducing males and females in a controlled mating setting.
- Performed background research, defined goal, hypothesis and outline for senior research, which was approved by the Natural Sciences Staff at McPherson College.
- Conducted 36 trials in two custom built arenas for experimentation, observed and recorded pertinent data that was later analyzed using statistical software programs JMP and SPSS.
- Presented findings to Natural Sciences Staff of McPherson College and guests by outlining a detailed report of research methods, data analysis and interpretation of results, and was awarded the Burkholder Research Award honoring outstanding achievement for Senior Research.
- Co-authored in the Journal of Arachnology with research advisor, Dustin Wilgers, in 2016 by combining the complementary results of our research and submitting for publication.