**STUDENT 001**

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**EDUCATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rosalind Franklin University of Medicine and Science (RFUMS),** **Aug 2019- Present**

North Chicago, IL

* Doctor of Pharmacy Candidate
* Expected graduation year: 2023

**Lake Forest College,**

**Aug 2016- May 2019**

Lake Forest, IL

* Bachelor of Arts in Biochemistry and Molecular Biology
* Inaugural class graduate
* Summa Cum Laude
* Phi Beta Kappa
* 4.00/4.00 GPA

**Buffalo Grove High School,**

**Aug 2012-June 2016**

Buffalo Grove, IL

* Graduated with highest honors.

**INTRODUCTORY PHARMACY PRACTICE EXPERIENCE(IPPE)**

**Oct 2019-Present**

Mariano’s Pharmacy

Gurnee, IL

* Learning the workflow of community pharmacy under the guidance of Dr. Preet Dhillon, PharmD
* Use the phone to talk with patients, providers and insurance companies
* Process electronic prescriptions, fill, and counsel patients on medications under supervision
* Utilize Micromedex and other drug information resources to practice counseling and conducting MTMs.

**PROFESSIONAL/RELEVANT WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lake Forest College**

*Biology research assistant* **May 2017-Dec 2018**

* Selected among the freshman class to conduct research as part of the Lake Forest College Richter Scholar Program
* Studied the biogenesis of telomerase under the guidance of Dr. Karen Kirk.
* Trained new lab members in molecular biology and

 microbiology techniques.

*Quantitative Resource Center Tutor*  **Jan 2018-May 2018**

* Tutored students in calculus, general chemistry, and general biology.
* Educated students on effective study and learning strategies.

*First-year Neuroscience Course Peer Mentor* **June 2017-Dec 2017**

* Prepared first-year neuroscience students with a neuro-ethics project, Brain Awareness Week events, and the elementary school workshop.
* Skills taught: Scientific research poster creation, reading and synthesizing primary and review articles, time management in college, neuroanatomy and neurophysiology.

**Walgreens Pharmacy,**

15 N Buffalo Grove Rd, Buffalo Grove, IL

*High School District 214 Pharmacy Intern* **June 2015-Aug 2015**

* Acquired skills to navigate around the different sections of the pharmacy.
* Duties included finding stock bottles, replacing dram vials, dispensing medication from the cell, pulling expired medications, and operating the computer system to change the manufacturer and partial fill medications.
* Familiarized myself with common medications and their names
* Became versed in various terminology such as “unit of use”, “cell”, “alpha”, “fast rack”, “waiters”, “insurance claims”, etc.
* Observed the process and communication skills during patient counseling and phone calls made to providers.

**Arlington Heights Park District,**

Arlington Heights, IL

**2015, 2016**

*Summer Tennis Camp Coach*

* Instructed pre-teen, teens, and adult group classes
* In charge of creating lesson plans, developing hand-eye-coordination games, teaching technique and scoring, and effectively communicating to enforce concepts.

**ORGANIZATIONS AND COMMUNITY INVOLVEMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**RFUMS**

*American Pharmacist Association of Student Pharmacists (APhA-ASP)*

**September 2019-Present**

Member

* Educated elementary school children on proper over-the-counter medication handling and storage. (12/13/2019)
* Took part of the National Prescription Drug Take Back Day by handing out flyers and educating the community about proper sharps disposal methods. (10/26/2019)
* Volunteered at the RFU College of Pharmacy Flu Shot clinic, learning how to effectively counsel patients following vaccination. (10/22/2019)
* Participated in the RFUMS APhA and Outreach for Health-sponsored health fair. Roles included interpreting for Spanish-speaking patients and administering influenza vaccines. (10/05/2019)

*Illinois Council of Health Systems Pharmacists (ICHP)*

**September 2019-Present**

* Member

*Student National Pharmaceutical Organization (SNPhA)*

**September 2019-Present**

* Member
* Helped lead an HIV awareness outreach program at Waukegan Public Library by organizing the space, creating infographics, and promoting screening and pre-exposure prophylaxis to those aged over 50. (09/20/2019)

**RFUMS Interprofessional Community Clinic (ICC)**,

North Chicago, IL

A student-run free clinic that offers services to people without health insurance. This provides a platform for medical, podiatry, pharmacy, and physical therapy students to apply their clinical knowledge. The majority of the population consists of only-Spanish speaking patients with chronic medical illnesses such as diabetes, hypertension, and hypercholesterolemia.

**December 2019-Present**

*Multi-panel Member: Community Care Coordinators and multi-cultural*

* In-clinic roles include referral shifts and volunteering on an interprofessional medical team when seeing patients.
* Outside of clinic, am in charge of reviewing charts in Athena EMR and calling back patients outside of clinic hours for appointment reminders, reporting lab results, scheduling, and making sure prescriptions are being picked up.

**Projects**

* Currently working to update the clinic’s referral’s data base to ensure patients are being referred to appropriate places of care such as for screenings and optic care for diabetes patients.
* Collaborating with the executive officer (EO) of the multi-cultural panel to translate the care coordinators patient interaction script into Spanish.

**December 2019-Present**

*Athena user and pharmacy student volunteer*

* Volunteer as a pharmacy student on a team with medical and podiatry students.
* Interact with patients by conducting past medical history reviews, taking vital signs, and administering appropriate vaccinations.
* Present patient history and one-liners to providers and discuss patient treatment options
* Ensure patient receives appropriate education prior to leaving the appointment
* Acquire new medical knowledge such as the physiological implications of diabetes, the significance of a CBC, Hemoglobin A1C, CMP, and lipid panel from a blood draw.
* Learn current screens and preventative therapies for cancers, muscle loss, and bodily pains.
* As the official Athena EMR user, I am responsible for guiding my team through the online charting process, ensuring everyone understands and contributes when patients leave.

*Medical Spanish Interpreter*

**December 2019-Present**

* Volunteer as an interpreter for Spanish-speaking patients during appointment hours.
* Interpret for medical, physical therapy (PT), and psychology appointments and translate patient summary cards and PT exercise handouts.
* Facilitate the cultural boundary between the patients, students, and doctors.
* Offer insight to interpreter training sessions and educate students on how to work with an interpreter on the team.
* > 200 hours

**Lake Forest College**

*Eukaryon*- Student-run peer-reviewed biology research journal

Editor-in-chief elect **Mar 2018- May 2019**

* Worked closely with the editor in chief and the three executive boards. Attended weekly meetings with the chief and advisor to plan budgets and future events.

Co-Chair of the Copy-Edit board **June 2017- May 2018**

* Trained new editors and communicated with the review and publication chairs to make sure the articles were being reviewed, edited, and formatted.

*Synapse-*Neuroscience Club

Treasurer  **Aug 2017- May 2018**

* Communicated with student government and catering companies to submit catering budget requests for the college annual Brain Awareness Week and neuroscience symposium events.

Member **Sep 2016-May 2018**

* Participated in campus outreach events relating to the brain and mental health such as raising money for Alzheimer’s disease.
* Taught neuroanatomy to third graders during the annual elementary school neuroscience workshop.

**PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Manuscripts in preparation:

**STUDENT et al. (2019). *Decitabine Treatment Demethylates Vast Majority of High-Confidence Differentially Methylated Regions In HCT-116 Colorectal Cancer Cells.* Manuscript in Preparation.**

**Palmero, B*.,* Hooda, F., L, J., STUDENT, A., Dejneka, A., Kirk, K. E. (2019). *Telomerase assembly in A. nidulans using a Novel Approach to the Heterokaryon Rescue Technique*, Manuscript in Preparation.**

* Published in the Lake Forest College student-led peer reviewed science journal\*

News and Views:

**STUDENT, A. (2019). *Customizable Chemo* (15th ed., Vol. 1). *Eukaryon*. Lake Forest, Illinois: Lake Forest College.**

**STUDENT, A. (2018). *Spreading Inhibition* (14th ed., Vol. 1). *Eukaryon.* Lake Forest, Illinois: Lake Forest College.**

**STUDENT, A. (2017). *The Price for Pain* (13th ed., Vol. 1). *Eukaryon.* Lake Forest, Illinois: Lake Forest College.**

Book review:

**STUDENT, A. (2017). *Can a Line be Drawn?* (13th ed., Vol. 1). *Eukaryon.* Lake Forest, Illinois: Lake Forest College.**

*\*Articles available upon request*

**POSTER PRESENTATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Lake Forest College Physiology, Behavior & Disease Symposium*

 **April 27, 2019**

Lake Forest, IL

**STUDENT, A., Curry, S., Brittain, C., Zimmerman. A., *Elucidating the Biological Mechanisms Underlying Resistance to PCB-Mediated Toxicity in the Atlantic Killifish (Fundulus heteroclitus*). Lake Forest College Physiology, Behavior & Disease Symposium 2019; Lake Forest College, IL.**

* Defended a mock grant proposal for the biology senior seminar class, BIOL 478: “Animal Survival in Extreme Habitats”.

*Experimental Biology Conference*

**April 6 2019-April 10 2019**

Orlando, FL

**STUDENT et al. “Decitabine Treatment Demethylates Vast Majority of High-Confidence Differentially Methylated Regions In HCT-116 Colorectal Cancer Cells. Experimental National Biology Meeting; 2019; Orlando FL.**

* Presented research at the poster symposium as part of the American Society for Biochemistry and Molecular Biology chapter from Lake Forest College.

*Lake Forest College Glassman Symposium,*

 **November 2017**

Lake Forest, IL

**Palmero, B*.,* STUDENT, Kirk, K. E. Is the Telomere RNA Exported from the Nucleus Glassman Symposium 2017;2018; Lake Forest College IL.**

* Described the results of a summer project conducted as part of the Richter Scholar summer research program.

**PRESENTATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lake Forest College**

 **July 28, 2017**

*Richter Scholar research symposium:*

* Described the results of an original research project that dealt with creating a knockout construct for the telomerase protein in *Aspergillus nidulans*:

**STUDENT, A., & Palmero, B. (2017). How to Mutate a Telomere Gene. Presentation, Lake Forest College, IL.**

**AWARDS/HONORS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**RFUMS**

*Future of Pharmacy Scholarship*

**May 2019-Present**

* Recipient of a four-year renewable scholarship of $5,000 per year for a total scholarship offer of $20,000.

**Lake Forest College**

**May 2019**

*Fredericka L. Stahl Memorial Award*

* Awarded for excellence in biochemistry and molecular biology

*Grace Elizabeth Groner Foundation Recipient*

**January 2018-May 2019**

* Member of the Groner foundation for academic honors and volunteering activity on a weekly basis.

*Dean’s List*

**Spring 2017-May 2019**

* Awarded for maintaining a GPA of 3.6 or higher for at least two consecutive semesters.

**Aug 2016- May 2019**

*Presidential Scholarship*

* Awarded the highest academic scholarship of $30,000 at the college every year.

**Outside Scholarships**

**Aug 2016- May 2019**

*Everett Kovler Scholarship*

* One of many applicants in the Chicagoland Jewish area to receive the $10,000 scholarship for every collegiate academic year.

**SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Clinical*

**Athena EMR system:** Charting during and after patient appointments, scheduling patients, viewing lab results, abiding by proper HIPPA laws

*Laboratory/Research*

**Biochemistry**: Acid-Base titrations, Michaelis Menten kinetics using spectrophotometric assays, running a protein gel

**Bioinformatics**: Analyzing DNA methylation, transcription factor binding, and gene expression data on UCSC Human Genome Browser and the ENCODE project, manipulating protein structures and selected residues in Chimera

**Microbiology:** Media, plate, and cell culture preparation, streaking plates, Heterokaryon Rescue Technique in *Aspergillus nidulans*, cell microscopy, aseptic laboratory technique and proper use of an autoclave, *E. Coli* and *A. nidulans* genetic transformations, gram, acid-fast, and endospore staining

**Molecular Biology:**  Polymerase Chain Reaction (PCR), gel electrophoresis, plasmid and genomic DNA extraction and purification, handling temperature sensitive enzymes, pipetting small volumes < 1μl, analyzing sequenced data from Sanger Sequencing, qPCR, analyzing high resolution melt (HRM) curves, designing primers for normal and bisulfite-treated DNA, clonogenic survival assay

**Organic Chemistry:** Utilization and interpretation of data yielded from Infrared Spectroscopy (IR), Nuclear Magnetic Resonance (NMR), Gas Chromatography (GC) and Thin Layer Chromatography (TLC)

*Languages*

* Fluent in English, Spanish, and Russian.

*Computer*

* Creating research posters and presentations in Microsoft PowerPoint
* Statistical analyses including multiple regression, internal consistency, independent samples t-test, and interrater reliability in SPSS
* Data organization and formula manipulations in Microsoft Excel
* Running spectrophotometric assays on Vernier Logger Pro

**LICENSURE**

**May 2019-Present**

*Illinois Department of Financial and Professional Regulation (IDFPR) Pharmacy Intern License*

* Number: 049.235087

**September 2019-Present**

*American Red Cross Association BLS Certification*

* eCard Code: 195506413562

*APhA Pharmacy-Based Immunization Delivery certified*

**September 2019-Present**

**REFERENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Available upon request