

Pearl A. Sutter

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OBJECTIVE

Employment as a clinical research associate

EDUCATION

Drew University, Madison, NJ

B.A. with Specialized Honors in Neuroscience, with a Minor in Biochemistry, Magna Cum Laude, May 2018

- Member of the National Chemistry Honors Society ($\Gamma\Sigma E$), National Honor Society in Neuroscience ($N\eta\psi$) and National Biological Honors Society ($\beta\beta\beta$)

RESEARCH EXPERIENCE

Effects of the Addition of DCP-LA on Learning and Memory in an in vivo Alzheimer's Model with Ovariectomized Rats

Drew University, (Mentors: Dr. Christina McKittrick and Dr. Roger Knowles)

Spring 2017 - Spring 2018

- Honors thesis research
- Performed stereotaxic surgeries for the implantation of brain infusion kits and ovariectomies
- Performed tests such as Morris Water Maze, Locomotor Activity, Perfusions, Chunk Dissection, Immunohistochemistry, and Cell Imaging (fluorescent microscope and NIS Element software)
- Conducted statistical analysis of data using SPSS and created graphs in excel to effectively present data

Effects of Maternal Separation on Anxiety, Depression, Learning and Memory in Spague Dawley and Long Evans Rats

Drew University, (Mentor: Dr. Christina McKittrick)

Fall 2016 – Spring 2018

- Conducted maternal separation experiments to determine the impacts of maternal separation on anxiety, depression, learning and memory
- Performed tests including the Open Field Maze, Morris Water Maze, Forced Swim Test, Elevated Zero Maze, and Perfusions
- Conducted statistical analysis of data using SPSS to determine significance of data

Developing a Model System to Explore TREM2 in Glial Cells

Drew University, (Mentor: Dr. Roger Knowles)

Fall 2014 - Fall 2016

- Developed a model system to explore TREM2 in glial cell cultures under Dr. Roger Knowles
- Cultured neuronal and glia cells and further isolated microglia cells from mixed cell cultures
- Performed assays including Microglia Isolation, Immunocytochemistry, and Cell Imaging (fluorescent microscope and NIS Element software)

PRESENTATIONS, GRANTS, and SCHOLARSHIPS AWARDS

Presentations

- *Effects of the Addition of DCP-LA on Learning and Memory in an in vivo Alzheimer's Model with Ovariectomized Rats*, Pearl Sutter, Dr. Christina McKittrick and Dr. Roger Knowles
 - Honors Thesis Defense, Madison NJ (April 2018)
 - Tri-Beta Biological Honors Society District Conference in Madison, NJ (March 2018)
 - Independent College Fund of New Jersey Undergraduate Research Symposium Jersey City, NJ (March 2018)

Grants

- Baldwin Research Grant (Spring 2018)
- Independent College Fund of New Jersey Undergraduate Research Symposium Grant (Fall 2017)
- National Biological Honors Society ($\beta\beta\beta$) Research Grant (Fall 2017)
- Baldwin Family Grant for Thesis Research (Spring 2017)

Scholarship Awards

- Celgene Corporation Sol J. Barer Scholarship in Life Sciences from the Independent Colleges of New Jersey (Spring 2018)
- Tracey J. Shors Neuroscience Prize (Spring 2017)
- Lois S. Harding M.D. Scholarship (Spring 2015-2018)
- Warshaw Family Scholarship (Fall 2017-Spring 2018, Fall 2016- Spring 2017)
- William G. Hosking Scholarship (Fall 2016- Spring 2017)
- Class of 1984 Scholarship recipient (Spring 2015, Fall 2015)

CLINICAL EXPERIENCE

Morristown Medical Center Internship Program

Spring 2018

- Shadowed physicians in the Red and Green Zones of the Emergency Department
- Discussed cases and diagnoses of patients with physicians

Children's Emergency Medical Fund of New Jersey (CEMFNJ)

Fall 2016 – Spring 2018

- Reviewed clinical cases of patients involved in the organization with Dr. Fran Reibman
- Accompanied CEMFNJ on doctor's visits and home visits

Shadowing Urological Surgeries at Albany Medical Center and Berkshire Medical Center

July 2016

- Shadowed Dr. Jonah Marshal, a urological surgeon at his private practice and hospitals
- Observed surgical procedures including cystoprostatectomies, nephrectomies, orchiectomies, prostatectomies and penectomies
- Observed robotic surgery with the Leonardo da Vinci robot
- Accompanied Dr. Marshal for diagnoses, pre-operational and post-operational patient visits

COMMUNITY SERVICE

Drew Disaster Relief Coalition

Fall 2017 – Spring 2018

- Founded this organization to fundraise and promote awareness for victims of natural disasters
- Spearheaded fundraising events including *Drew Dancing with the Stars* (April 2018) and tabling at Drew Forum Speaker events
- Organized the assembly of UMCOR Hygiene kits with the funds collected
- Led disaster relief workshops to promote to Drew students and faculty about how they can help

Children's Emergency Medical Fund of New Jersey (CEMFNJ)

Fall 2016 – Spring 2018

- Spearheaded fundraising projects including collection of donation boxes and fundraising events
- Organized and scanned all patient files

Drew University First Responders

Fall 2014-Spring 2016

- Responded to and recorded medical emergencies on campus with Drew Public Safety
- On-call Friday and Saturday night shifts from 7pm-2am to respond to calls

TEACHING EXPERIENCE

- Neuroscience Research Methods Teaching Assistant (Spring 2018)
- Systems Neurobiology Teaching Assistant- Surgical Specialist (Fall 2017)
- Microbiology Teaching Assistant (Spring 2017)

SKILLS

- *Computer:*
 - Proficient understanding of SPSS statistical program
 - Proficient understanding of Excel and Word
- *Professional:*
 - Proficient in the designing and execution of research experiments and working with a team in the lab
 - Capable of interpreting statistical tests to determine significance of numerical data
 - Experience writing full length research reports and papers, both first hand physical research and literature research
 - Proficient in public speaking
- *Relevant Coursework:*
 - Introductory Statistics
 - Intermediate Statistics
 - Neuroscience Research Methods
 - Systems Neurobiology
 - Cellular and Molecular Neurobiology
 - Molecular Genetics
 - Biochemistry
 - Advanced Biomolecular Structure and Function
 - Endocrinology

REFERENCES

Dr. Roger Knowles

Professor of Neuroscience

Undergraduate Research Advisor

Drew University

Office phone number: (973)-408-3561

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Dr. Christina McKittrick

Associate Professor of Neuroscience

Undergraduate Research Advisor

Drew University

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Dr. Fran Reibman

Co-Founder and Director of the Children's Emergency Medical Fund of New Jersey

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