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HANNAH YVE LYONS

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EDUCATION	
Bachelor of Science in Microbiology and Cell Sciences	May 2020
Bachelor of Arts in History	May 2020
Minor: French and Francophone Studies	
University of Florida (UF), Gainesville, FL	
UF Honors Program, UF International Scholars Program, GPA: 3.87/4.00	
Barry Goldwater Scholar, Phi Beta Kappa Honor Society, Honor Society of Phi Kappa Phi	
Pusan National University- US State Department Critical Language Scholarship	June-August 2019
Busan, South Korea	
St. Edmund's College, Cambridge University- UF Department of History Study Abroad	July-August 2017
Europe during the Age of Revolution, "French Medical Institutions After 1789"	
Cité Internationale Universitaire, Paris, France and Cambridge University, Cambridge, England	
WORK EXPERIENCE	
Research Assistant, Center for Addiction Research and Education, McKnight Brain Institute Gaines	ville, FL January 2017-Present
• Executed experiments using intercranial self-stimulation on rat models to determine the mechani- withdrawal, investigating brain reward pathways and dysphoric states through smoke exposure as	
Research Assistant, Florida Space Institute, University of Central Florida Orlando, FL	May-June 2017
 Assisted scientists in developing proposals and grant applications for studies on in-situ resource to conditions, and radiation effects on the central nervous system, with an emphasis on ensuring creactivity (EVA) and surface operations Developed new communication platforms for NASA Radiation Effects on Volatile and Explorati (REVEALS) team 	ew safety during extra-vehicular
Intern, Florida Space Institute, University of Central Florida Orlando, FL	May-August 2018
 Developed novel investigation efforts around the development of regolith-based polymers that preserve antibiotics and antihistamines exposed to galactic cosmic radiation and solar particle exposed to coordinated proposal writing efforts for multi-institutional project, editing project descriptions, rejustifications, and biosketches for submission to the Translational Research Institute for Space Here. Collaborated with NASA project scientists and flight surgeons to assemble lunar regolith envelop effects on tomato seeds, specifically investigating the feasibility of food production beyond low-like the second seco	vents during long-duration spaceflight nanagement approaches, budget ealth (TRISH) pes for investigations of radiation
LEADERSHIP	
Founder/Director for Development and Internal Affairs, Positive Feedback Gainesville, FL	February 2018-Present
 Founded Positive Feedback, a mentorship student organization that wields the expertise and resord STEM fields to provide positive science mentorship to mainstream middle-school students in the Developed science fair curriculum for sixth grade students to promote problem-solving and civic Feedback to apply for, and ultimately win, a \$5,000 social entrepreneurship grant from the Bob C Mentored and empowered underserved students as they worked to design and complete group sci 	Gainesville area engagement, enabling Positive Graham Center for Public Service
Director, Salon and Engagement Activities, TEDxUF Gainesville, FL	May 2018-Present
 Spearheaded the first-ever TED panel-style event at UF, formulating the topics and panelist ques designed to introduce community members to innovative ideas in diverse fields Designed salon events to promote creativity and innovation in the Gainesville community, creating event themes including the power of art in technology and the need for diversity in our telling of Ambassador, UF Honors Ambassadors/Luminaries <i>Gainesville</i>, <i>FL</i> 	ng multidisciplinary and inclusive

• Connected potential future Honors students and their families with the Gator Nation through tours and annual Honors Visitation Day event, and promoted inclusivity and achievement within the Honors program by collaborating with a variety of Honors organizations

Initiated and coordinated volunteer events for Honors Ambassador Organization, ensuring that all 60 members had the opportunity to serve the community they represent through partnership with groups such as the Alachua County Department of Parks and Recreation

Ambassador, UF College of Liberal Arts and Sciences Gainesville, FL

- Advised students on academic scheduling and professional planning as a representative of the largest undergraduate college at UF
- Represented my college and department as a current student at formal university events

Vice-President of Programs, UF Student Honors Organization Gainesville, FL

- Promoted professional development and community engagement in the UF Honors Program as the leader of the Diversity and Inclusivity Committee of the Student Honors Organization
- Presided over Honors Organization Student Board and oversaw the development of engaging, inclusive events for Honors students

Managing Editor, Gator Premedical Guide Gainesville, FL

- Directed section editors and writers as they prepared weekly articles analyzing recent advances in patient care and medical technology
- Promoted professionalism and excellence within each section of the publication through effective communication and goal-setting

INVOLVEMENT

Volunteer, Samuel Proctor Oral History Program Gainesville, FL, Natchez, MS

- Contributed to one of the nation's largest public collections of African American history by transcribing oral history interviews; preserving the experiences, perspectives, and narratives of a diverse and largely unheard population
- Preserved and conducted oral history interviews with Freedom Summer Veterans and participated in advocacy initiatives in the Mississippi Delta through annual Mississippi Freedom Project

University Scholar, UF University Scholars Program Gainesville, FL

- Honored as a nominee from the UF Department of History, and later selected as as one of 200 students university-wide that receive individual research funding and direct faculty mentorship through the University Scholars Program
- Conducted archival research on Parisian public health systems in the late eighteenth century, specifically analyzing the reaction of French hospitals to the fall of the monarchy in 1789

Fellow, Bob Graham Center for Public Service Gainesville, FL

- Organized community and speaker events to inspire civic engagement and representation in local, national, and global politics
- Empowered students and community members by participating in voter registration drives and voter education projects

Team Member, UF Women's Club Lacrosse Team Gainesville, FL

- Integrated personal and team goals to find success representing UF as a dedicated member of travel lacrosse team
- Developed leadership skills by encouraging teammates throughout conditioning sessions and practices

Volunteer, Transplant & Orthopedics Wing, PICU, UF Health Shands Hospital Gainesville, FL January 2018-Present

Managed labs, answered call lights, and interacted directly with nurses, technicians, patients, family members, and doctors to ensure that communication between different health care professionals occurred efficiently and effectively

Finalist, Emory Global Health Case Competition Atlanta, GA

- Awarded honorable mention at the Emory Global Health Case Competition, an international competition centered around developing realistic solutions to modern health care crises
- Collaborated with multidisciplinary graduate/undergraduate UF team to address complex, realistic cases, such as the HIV/AIDs epidemic in South Africa and a hypothetical coronavirus outbreak at the 2022 World Cup in Qatar

Volunteer, Global Medical Training Lima, Peru

- Assisted doctors and medical professionals in rural primary care clinics, collecting patient histories and prescription medications
- Engaged in multinational global health initiatives, working to address the logistical and economic challenges of providing care to rural, impoverished populations

Mentor, Gainesville Area Community Tennis Association "Aces in Motion" Gainesville, FL

Mentored underprivileged elementary school students through weekly youth program that uses tennis to promote character development, academic achievement, and a healthy lifestyle

Volunteer, Florida Museum of Natural History Gainesville, FL

- Initiated the fossil processing procedure within the Department of Paleontology lab, carefully washing fossils after their arrival from the dig site to remove sand and clay and organizing them by collector, location, and date
- Contributed to fossil collection efforts at active dig site, carefully uncovering and excavating fossils that are over 5 million years old

March 2019-Present

August 2017-May 2019

August 2016- May 2019

January 2018-Present

December 2017-April 2018

January 2018- May 2018

January-May 2018

August 2018

March 2018-May 2019

January 2018-Present

August 2016-Present

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PUBLICATIONS AND PRESENTATIONS

S. Tan, S. Xue, A. Behnood-Rod, R. Wilson, P. Knight, S. Panunzio, **H. Lyons**, M. Febo, A. Bruijnzeel. "Sex Differences in the Reward Deficit and Somatic Signs Associated with Precipitated Nicotine Withdrawal in Rats." *Neuropharmacology*, vol. 160, 2 Sept. 2019.

H. Lyons, E. Beltran, T. Orlando, Z. Seibers, V. La Saponara, J. Reynolds. "Radiation Safety Systems Integration for EVA and Surface Operations in Human Space Exploration." 2019 NASA Exploration Science Forum. NASA Solar System Exploration Research Virtual Institute. NASA Ames Research Center, Moffett Field, California. 23 July 2019. Poster Presentation.

H. Lyons, A. Friefeld, S. Kroen. "Scientific and Social Implications of UNRRA Public Health Policy in Post-war Europe." UF Undergraduate Research Symposium. CUF Center for Undergraduate Research. University of Florida, Gainesville, Florida. 4 Apr. 2019. Poster Presentation.

R. Kumar Chellian, A. Behnood Rod, R. Wilson, M. Polmann, **H. Lyons**, A. Bruijnzeel. "Sex difference in the behavioral economics of food reinforcement in rats." UF College of Medicine Research Poster Session. Stephen O'Connell Center, Gainesville, Florida. 19 Feb. 2019. Poster Presentation.

E. Beltran, T. Orlando, Z. Seibers J. Reynolds, V. La Saponara, D. Britt, **H. Lyons**. "Radiation Safety Systems Integration for EVA and Surface Operations." Investigators' Workshop. NASA Human Research Program. Galveston Island Convention Center, Galveston, Texas. 24 Jan. 2019. Poster Presentation.

H. Lyons, J. Baltz. "The Art of Honors: Promoting Creativity and Fine Arts in Honors Coursework." National Collegiate Honors Council Annual Conference. Sheraton Boston, Boston, Massachusetts. 9 Nov. 2018. Poster Presentation.

E. Beltran, **H. Lyons**. "Radiation Protection for Human Space Exploration and its Applications on Earth." Adventist University of Health Sciences Research Colloquium. Orlando, Florida. 21 June 2017.

AWARDS

University of Florida Hall of Fame, 2020 • University of Florida Outstanding Scholar, 2020 • Barry Goldwater Scholar, 2019 • NASA College Scholarship Award, 2016-2020 • UF Presidential Scholarship, 2016-2020 • University Space Research Association Frederick A. Tarantino Scholarship, 2018 • University Women's Club Sue Young Scholarship, 2019 • Anderson Scholar, High Distinction, 2018 • Pamela Frank Scholarship, 2017 • Wentworth Travel Scholarship, 2017 • Florida High School Athletic Association Academic All-State Female Scholar Athlete of the Year, 2016 • International Baccalaureate Programme Diploma, 2016