

2022 Aspiring Scientists' Summer Internship Program

Wednesday, August 10, 2022, 12: 15-6:15 PM

This hybrid event is held in-person at the Verizon Auditorium and adjacent breakout rooms, Mason SciTech Campus, Manassas, VA and remotely via Zoom, <https://gmu.zoom.us/j/98490382144>

Research Symposium: Project Presentation Schedule, also available at <https://science.gmu.edu/assip>

Welcome, 12:15-12:25 PM

Session A, 12:30-1:42 PM

Break, 1:42-1:57 PM

Session B, 1:57-3:09 PM

Break, 3:09-3:24 PM

Session C, 3:24-4:36 PM

Break following until the Celebration of Research at 5:00 PM

Session A, In-person and Hybrid Presentations					
Zoom Breakout room number	Session & presentation order	In-person location	Start Time Eastern Daylight Savings Time (DC time)	Authors' Names (Presenting Interns' Names are in all capitals)	Presentation Title
1	A1	Colgan 101A	12:30 PM	KATIE RUEFF, Lauren Koban, Amy Fowler	Freshwater Bivalves: the Sherlock Holmes of Bioaccumulation
1	A2	Colgan 101A	12:42 PM	EMMA DILIC, Kevin Cevasco, Amira Roess, Taylor Anderson	Determinants of Pediatric Vaccine Uptake in the United States of America

1	A3	Colgan 101A	12:54 PM	VIVIAN GAO, Anastasia Williams, Yuriy Kim, Fatah Kashanchi	The Effect of Cannabidiol and HU308 on Extracellular Vesicle Populations of HIV-1 Infected Monocytes
1	A4	Colgan 101A	1:06 PM	SURUTHIKHA VIJAY, ELIJAH MCCLENDON, EUNICE CHOI, Suman Alishetty, Mikell Paige	Lipid Design and Synthesis to Increase mRNA Encapsulation in LNPs
1	A5	Colgan 101A	1:18 PM	SHLOK PATHAK, Parth Pathak	An Analysis of International Censorship Methods
1	A6	Colgan 101A	1:30 PM	ZOE POWERS, Daya Hall-stratton, Alexander Whitney Mott, Amy Fowler	"Eating for Two": Does Parasitic Infection Alter the Feeding Behavior of the Invasive Japanese Mystery Snail?
2	A1	Colgan 101E	12:30 PM	DOMINIC KING, Arham Siddiquee, Duminda Wijesekera	Integration of 5G Network Management with Node Clusters for the Support of NextG Security
2	A2	Colgan 101E	12:42 PM	ALEXANDRA NEIKIRK, HANNAH LAOUDI, PATRICK BOYD, Andrea Cobb	Is qPCR Amplification of M. tuberculosis DNA in Human Urine an Effective and Convenient Diagnostic Method?
2	A3	Colgan 101E	12:54 PM	JUSTIN JOSE, Arun Krishnavajjala, S M Hasan Mansur, Kevin Moran	MIRACLE: Motor Impairment Accessibility Issues
2	A4	Colgan 101E	1:06 PM	EMMA MATHEW, ANGELA ROJAS, Purva Gade, Marissa Howard, Lance Liotta	Characterizing the Activation States of Merlin-regulated Proteins in NF2 Tumors as Potential Targets for Novel Therapeutics

2	A5	Colgan 101E	1:18 PM	LAURA LIANG, Fei Li	Grouping Songs Using String-Matching and Lloyd's Algorithm
2	A6	Colgan 101E	1:30 PM	MARGET GAO, RACHEL HUANG, RHIK MAZUMDER, Fei Li	Comparisons of Classic and Quantum String Matching Algorithms
3	A1	Colgan 101H	12:30 PM	KUBER GOHIL, Christopher Lockhart	Evaluating Reduced and Oxidized Abeta Peptides Using Machine Learning
3	A2	Colgan 101H	12:42 PM	MIRA SINGH, Michael Summers	Evaluating External Sources of Metals for the Development of Planetary Civilizations on Ocean Worlds
3	A3	Colgan 101H	12:54 PM	JENNY CHEN, Yunyao Li	Accounting for Missing AOD Data with UVAI for Improved Aerosol Forecast in Wildfire/Dust Storm Cases
3	A4	Colgan 101H	1:06 PM	AUDREY CZARNECKI, Julia Leonard, Caroline Hoemann	Analysis of Neutrophil Viability and Activation State in LPS Treated Cultured Blood Clots
3	A5	Colgan 101H	1:18 PM	ALEX KASHANCHI, Anastasia Williams, Yuriy Kim, Lance Liotta	The Vaccine Effect of Extracellular Vesicles from Breast Cancer Cells
3	A6	Colgan 101H	1:30 PM	DAPHNIE LU, Annie McAllister, Robert Spaine, Kenneth Foreman, Lee A. Solomon	Engineering and Characterizing a Ribose Binding Protein
4	A1	Colgan 101L	12:30 PM	GABRIEL ASCOLI, Fahad Alsaab, Monique Van Hoek	Testing Ab Initio Designed Antimicrobial Peptides Against Multi-Drug Resistant <i>Acinetobacter Baumannii</i>

4	A2	Colgan 101L	12:42 PM	MICHAEL ZHOU, Kai Zeng	Reinforcement Learning Based Channel Hopping: Implementation on Nano Drones
4	A3	Colgan 101L	12:54 PM	TOMMY FAN, Ling Ren	Long-term Water Quality Trends in Barnegat Bay, New Jersey
4	A4	Colgan 101L	1:06 PM	SHIVANI ACHUTHAN, Emma Von Hoene, Taylor Anderson	Integrating the Theory of Planned Behavior and the Health Belief Model into an Agent-Based Model of Disease Spread
4	A5	Colgan 101L	1:18 PM	LAURA ZHANG, Mihai Boicu	Using Initial Student Performance to Estimate Final Grade in a Course
4	A6	Colgan 101L	1:30 PM	VARUN RAJAN, Erdal Yigit	Observation of Martian Thermosphere by Satellites and Importance of Orbital Configuration
5	A1	Verizon Auditorium	12:30 PM	CHRISTOPHER PISHVAIAN, Yuriy Kim, Fatah Kashanchi	Characterization of Large Extracellular Vesicles from Breast Cancer
5	A2	Verizon Auditorium	12:42 PM	ADITYA BENDRE, Jacklin Sedhom, Lee Solomon	Analysis of DNA Binding as a Function of Hydrogen Bonding Overlap Percentage
5	A3	Verizon Auditorium	12:54 PM	KISNA MATTA, Michael Summers	Effects of Nearby Galactic Supernovae on the Composition of Solar System Atmospheres
5	A4	Verizon Auditorium	1:06 PM	ADITYA BEHERA, IRENE KO, Alia Wofford, Natalie Burls	Analyzing the Radiative Effects of Dust Aerosol Concentrations on Climate Forcings
5	A5	Verizon Auditorium	1:18 PM	ANN SHEN, SHAHZAD SOHAIL, Jeffrey Kopsick, Giorgio Ascoli	EC-DG-CA3 ASSIP

5	A6	Verizon Auditorium	1:30 PM	NAOMI ALEMAYEHU, MIA SALINAS, Julia Wulfkuhle, Emanuel F. Petricoin, Rosa I. Gallagher	Protein Profiling of the Tumor Microenvironment of DCIS and Invasive Breast Cancers using Reverse Phase Protein Microarrays
---	----	--------------------	---------	--	---

Session A, Remote Presentations				
Zoom Breakout Room	Session, presentation order	Start time	Authors	Title
6	A1	12:30 PM	TANVI BHAVE, Mihai Boicu	Computing the Ideal Number of Attempts for An Assignment to Improve Course Design
6	A2	12:42 PM	AKANKSHA TIBREWLA, Aman Ullah	Data Analysis of the Genetic Variability in Alzheimer's Patients
6	A3	12:54 PM	ALYSSA MCGOWAN, Safwat Ali Khan, Kevin Moran, Wing Lam	Improving Android UI Testing Through Automated Screen Understanding
6	A4	1:06 PM	NETHRA GANESH, Rebecca Robert, Amira Roess	Trends in breastfeeding and c-section rates in Tanzania, 1996-2015
6	A5	1:18 PM	LILLIAN WATSON Rebecca Robert, Amira Roess	Trends in breastfeeding and c-sections in the Dominican Republic, 1996-2013
6	A6	1:30 PM	ANISH SUSARLA, AUSTIN LIU, Andreas Züfle, Duy Hoang Thai	Spatiotemporal Disease Case Prediction Using Contrastive Predictive Coding
7	A1	12:30 PM	ARNAV JAIN, Li Zhang, Wenjie Xi, Jessica Lin	Toward an Efficient Similarity-Aware Time Series Classification

7	A2	12:42 PM	ARYA VISHNU, Suzzana Rafi, Wing Lam	When Software Research Meets Industry: An Exploration of Non-Deterministic Testing, the Automated Solution & Firsthand Developer Feedback
7	A3	12:54 PM	ASMITA KARANDIKAR, Mihai Boicu	Bias in Knowledge Graph Creation
7	A4	1:06 PM	BIANCA LINARES, Alonso Gabriel Ogueda, Padmanabhan Seshaiyer	A mathematical model for understanding and predicting dynamics of depression as an epidemic.
7	A5	1:18 PM	CHARU MEHTA Yunyao Li	Analyzing the Relationship Between Ultraviolet Aerosol Index and Aerosol Optical Depth to Fill in Missing Data from a 2021 Wildfire
7	A6	1:30 PM	CINDY YANG, Mihai Boicu.	Analyzing Deep Learning Methods for Constructing Knowledge Graphs from Text Using Automated Ontology
8	A1	12:30 PM	DASHIELL BHATTACHARYYA, William Kennedy	Flocking with Only Two Parameters
8	A2	12:42 PM	DAVID CAO, Michael Summers	The Implications of 'Oumuamua on Panspermia
8	A3	12:54 PM	DAVID HAN, Jinghao Huang, Chao Luo	A Promising Organic Anode Material for Stable and Sustainable K-ion Batteries

8	A4	1:06 PM	EMILY TANG, John Qu, Xianjun Hao	Identifying Wildland Fire Risks in California Using Machine Learning and Multi-Source Observation Data
8	A5	1:18 PM	HANA WINCHESTER, Alicia Boyd, Brittany Johnson	Harmful Terms in Computing: Detection and Correction
8	A6	1:30 PM	KATIE JIMENEZ, Shay Snyder, Maryam Parsa	Using Neuromorphic Computing to Simulate the Control of Soft Robotic Fish
9	A1	12:30 PM	MADHURI SOSALE, Rob Cressman	Studying Transient Evolution of Dynamical Systems Using a Double Pendulum
9	A2	12:42 PM	MANAV SABHARWAL, Tolga Soyota, Kamaljeet Sanghera	Dream
9	A3	12:54 PM	MARISSA HARTER, Amy Carfagno, Barney Bishop	The Effect of Freeze-Thaw Cycles on Mass Spectrometry Signals of Peptide Standards
9	A4	1:06 PM	MAXWELL MEYTIN, Iosif I. Vaisman	Creation of Printable Protein Models based on Atomic Coordinates
9	A5	1:18 PM	ADITYA RANGI, RHEA RAJMANNA, MEGHNA KRISHNAVARAPU, Kamaljeet Sanghera, Duminda Wijesekera, Bikram Adhikari	Occupancy and direction estimation based on grid search approach

9	A6	1:30 PM	PRAJAKTA GADHAMSETTY, SAI VAKA, Stephanie Kane, James Casey	Take a Load Off! Enhancing Artificial Intelligence Offloading in Multiplayer Games
10	A1	12:30 PM	JESSICA CHUNG, PRANAV MERAGA, Art Poland	Measuring Velocities of the Sun's Ionized Magnetic Loops to Understand Coronal Heating
10	A2	12:42 PM	PRIYA NAYAK, Anusha Srienganathanmalarvizhi, Chaowei Yang	Using Application Programming Interfaces to automate NO2 Data Collection of the Ukraine Region Using Data from NASA Satellites.
10	A3	12:54 PM	PUN SIRIPUN, Yunyao Li	Improving Aerosol Optical Depth (AOD) data via Regression Methods derived from Mean Combustion Efficiency (MCE) and Aerosol Index (UVAI) data products
10	A4	1:06 PM	RENEE HONG, Byong Kwon, Padmanabhan Seshaiyer	Addressing the emergency Ukraine food security crisis using Mathematical Modeling through optimal distribution of food resources
10	A5	1:18 PM	RICK SUN, SHARAT CHANDRA SHAILENDRI, ABIGAIL JOSEPH, Bikram Adhikari, Duminda Wijesekera	Occupancy and Direction Estimation Based on Thermal Sensor Data
10	A6	1:30 PM	SALMA YUSUF, Peter Plavchan	Performing Data Analysis on Light From Distant Stars to Confirm the Existence of Transiting Bodies

!5-minute break, 1:42-1:57

Session B, In-person and Hybrid Presentations					
Zoom Breakout room number	Session & presentation order	In-person location	Start Time Eastern Daylight Savings Time (DC time)	Authors' Names (Presenting Interns' Names are in all capitals)	Presentation Title
1	B1	Colgan 101A	1:57 PM	WINSTON GAN, Qian Liu, Phil Yang, Hai Lan	Monitoring Air Quality by Utilizing Machine Learning Regression Models to Predict Daily PM2.5 Concentrations
1	B2	Colgan 101A	2:09 PM	WENDY LU, Zach Messegee, Callista Skaggs, Xiaoyan Tan	Designing Polar Metallic Oxides by Tuning the Disorder of Ba4Mn3-xTixO10
1	B3	Colgan 101A	2:21 PM	ROHAN SHAH, Emad Aghayi, Thomas LaToza	What are the Applications of Microtask Programming as Explored Through the First Ever Microtask Programming Hackathon?
1	B4	Colgan 101A	2:33 PM	NIKIL SHYAMSUNDER, BRIAN LI, RITHVIK REDDYGARI, HAILEY PAN, PRANEETH BHANDARU, Ziheng Sun	Towards Practical ML-driven SWE Prediction

1	B5	Colgan 101A	2:45 PM	IRIS GUO, ARTHUR WU, Nirup Menon, Tim Leslie	Does More Money Help? The Effects of Health Contract Spending on Health Outcomes
1	B6	Colgan 101A	2:57 PM	unscheduled	
2	B1	Colgan 101E	1:57 PM	MARGARET GAO, Fei Li	Arbitrage using the Bellman-Ford Algorithm
2	B2	Colgan 101E	2:09 PM	HENNA THUKRAL, Linda Chilin, Yuntao Wu	Application of a SARS-CoV-2 Pseudovirion for Evaluating Potency of Neutralizing Antibodies Against SARS-CoV-2 Variants
2	B3	Colgan 101E	2:21 PM	ANISH KOHLI, Anvitha Aravelly, Anisha Yidala, Kammy, Sanghera, and Duminda Wijesekera	Which Features Are Most Helpful In Predicting Malignant or Benign Cancer From the Available Wisconsin Breast Cancer Data set
2	B4	Colgan 101E	2:33 PM	RACHEL HUANG, Fei Li	Comparing Music with Dynamic Programming String-Matching Algorithms
2	B5	Colgan 101E	2:45 PM	RAGHAV TIRUMALE, Farina Faiz, Parth Pathak	Using mmWave Radar Technology for American Sign Language Gesture Recognition
2	B6	Colgan 101E	2:57 PM	TARINI BASIREDDY, LINDA GU, Shirin Movaghgharnezhad, Pilgyu Kang	Better than Batteries; Does Changing the Substrate for Laser Induced Graphene Impact Capacitance?

3	B1	Colgan 101H	1:57 PM	SMRITHI RAMESH, T. Reid Nelson, Rachel Kelmartin	Comparisons of Banded Killifish Condition Among Waste Water Impacted and Control Sites
3	B2	Colgan 101H	2:09 PM	MAANAS BARAYA, Dennies Bor, Bonface Osoro, Edward Oughton	Using Natural Language Processing to Analyze the Current State of Political Discourse on Twitter
3	B3	Colgan 101H	2:21 PM	ADITYA SENGAR, Mihai Boicu	Comparative Analysis of Quantum Support Vector Machines and Nonlinear Classical Support Vector Machines for Malignant Colorectal Cancer Diagnosis
3	B4	Colgan 101H	2:33 PM	TERESA DONG, NITHYA RAMANI, Kelsey Mitchell, Frank Krueger	Short-term affiliation in human autonomy dyads
3	B5	Colgan 101H	2:45 PM	KATELYN CHEN, Amrita Haikerwal, Yuntao Wu	Impact of Infectin on Viral Transduction for CAR-T Cell Therapy
3	B6	Colgan 101H	2:57 PM	KATERI MANTOOTH, Archi Sehgal, Allyson Dailey, Robin Couch	Antibiotic Development Against Klebsiella pneumoniae
4	B1	Colgan 101L	1:57 PM	RITHVIK GUJJULA, Kamaljeet Sanghera	Using Wifi-Based Occupancy Data to Increase Energy Efficiency for Smart Buildings
4	B2	Colgan 101L	2:09 PM	SATVIK MATTA , Shay Snyder, Maryam Parsa	Are Spiking Neural Networks Useful for Control Applications at Edge?
4	B3	Colgan 101L	2:21 PM	VICTORIA WANG, Sarah Greenberg, Darby Pochtar, Amy Fowler	Understanding the Salinity Range of an Isopod Endoparasite in an Estuarine Mud Crab Host.

4	B4	Colgan 101L	2:33 PM	VIHAAN MATHUR, Xianjun Hao, John Qu	Assessing the Impacts of California Wildfires on Air Quality using Remote Sensing Data and Machine Learning
4	B5	Colgan 101L	2:45 PM	ELLIE CHEN, William Kennedy	Investigating Emergency Responders' Roles in a Dirty Bomb Event With an Agent-Based Model
4	B6	Colgan 101L	2:57 PM	AIDEN HA, BRADLEY CAO, JEAN PARK, PURNIMA VASISTHA, RISHEETHA BHAGAWATULA, Sang Nam	Raising Awareness On Geopolitics Concerning the Russia-Ukraine Conflict Through Serious Games
5	B1	Verizon Auditorium	1:57 PM	ANGELA ROJAS, EMMA MATHEW, Purva Gade, Marissa Howard, Lance Liotta	Primary Breast Cancer Communication with the Centenal Lymph Node via Extracellular Vesicles Regulates Distant Metastasis
5	B2	Verizon Auditorium	2:09 PM	ALEX LI, Michael Crawshaw, Mingrui Liu	Empirically Investigating Sharpness-Aware Minimization for Deep Learning
5	B3	Verizon Auditorium	2:21 PM	ZIONA CHOI, BAMLAK BELAY, Nathalia Peixoto	Instrumentation design to record neuronal activity in earthworms
5	B4	Verizon Auditorium	2:33 PM	SARAH CHO, SMRITHI RAMESH, T. Reid Nelson	Striped Bass Movement Across Salinity Gradients Inferred from Otolith Chemistry
5	B5	Verizon Auditorium	2:45 PM	KETEVAN GALLAGHER, KHEYA SIRIPURAPU, SACHIN SATISHKUMAR, SRIHAN KOTNANA,	Comparing Spatial Social Network Models for an Agent-Based Simulation

				Andreas Züfle, Hamdi Kavak	
5	B6	Verizon Auditorium	2:57 PM	KAZI TASNIM, SANJANA RAO, Andrea Cobb	Identifying Potential STEM Opportunity Deserts in Northern Virginia

Session B Remote Presentations					
Zoom Breakout Room	Session, presenting order	Start time	Authors	Title	
6	B1	1:57 PM	NEHA KONDURU, SALONI SHAH, Sajed Jalil, Thomas LaToza	MLFeed: Data Science Tutor	
6	B2	2:09 PM	ANDY QIN, SAMEEHA MALIK, SUHEERA MALIK, Mihai Boicu	Does Initial Student Performance in Online Courses Lead to Student Failure?	
6	B3	2:21 PM	SAMUEL LITTMAN, Alex Irizarry, Monique Van Hoek	What are potential substrates for <i>Francisella novicida</i> chitinases?	
6	B4	2:33 PM	SANJANA SUBRAMANYAM, Akshay Charan, Caroline Hoemann	Comparative Articular Cartilage Thickness Measures using High Frequency Ultrasound versus Histology	
6	B5	2:45 PM	SANYA GUPTA, Mihai Boicu	Does Allowing Multiple Attempts On Online Homework Benefit All Students?	

6	B6	2:57 PM	SIRI NIKKU, Jessica Roman, Amanda Haymond Still	New Hybrid Molecular Modalities Comprised of DNA Origami and Interfering Peptides as Inhibitors of Protein-Protein Interactions
7	B1	1:57 PM	SOHINI BANERJEE, Long Nguyen, Padmanabhan Seshaiyer	Using Physics-Informed Neural Networks to Model and Simulate the Dynamics of Infectious Diseases in Enclosed Environments
7	B2	2:09 PM	SOPHIA DENG, Xianjun Hao, John Qu	How do the California Wildfires Impact Vegetation Health?
7	B3	2:21 PM	SOPHIE MERCIER, Ling Ren	Harmful Algal Blooms (HABs) and Phytoplankton in the Tuckerton Salt Marsh: What Causes Them and What Are the Consequences?
7	B4	2:33 PM	STEPHANIE SONG, Yunyao Li	How are Correlation, MCE, and FRP Related in the September 2020 Fire?
7	B5	2:45 PM	TAEIN KIM, Sahar Mehrpour, Thomas Latoza	Mining Design Rules: Creating a User Interface for Programmer-Computer Interaction
7	B6	2:57 PM	JAY LALWANI , ADITYA DAGA, Mihai Boicu	Using Machine Learning to Predict University Student Failure Based on Recurring Assignment Procrastination
8	B1	1:57 PM	THRISHA SAKAMURI, Mihai Boicu	A Comparison Between Manual Free Response Classification and Machine Learning and Natural Language Processing Techniques in Terms of Speed and Accuracy

8	B2	2:09 PM	LAYAN WAHDAN, VANESSA FAJARDO, Carolina Tecuatl, and Giorgio Ascoli	Morphological Analysis of Schizophrenic Animal Model Data From NeuroMorpho.Org Database
8	B3	2:21 PM	VIKRANTH NARA, Micah Boicu	How does personalization methods used in learn-by-mistakes systems affect learning gains?
8	B4	2:33 PM	YASEMIN TANYU, Massimiliano Albanese	Exploring Hands-on Resources and Activities in Election Security
8	B5	2:45 PM	YUHAO "BEN" PAN, Edward Oughton, Tim Leslie	Using Twitter to Examine the Relationship Between Social Media and Air Quality in American Cities
8	B6	2:57 PM	YUSHU ZHANG, Peter Plavchan	Detection of Infrared Excess in the V1298 Tau Planetary System Using a Spectral Energy Distribution Model
9	B1	1:57 PM	ABHINAV PAPPU, Iosif Vaisman	Automute2.0 to predict neural and disease-causing mutations in human transmembrane proteins
9	B2	2:09 PM	ASHWIN TRIPATHY, Mihai Boicu	What type of Data Anonymization methods will help give us better results in an educational setting?
9	B3	2:21 PM	BENOY SEN, Aman Ullah	Computational Study on the Transmission of COVID-19 in Virginia using SIQR Model
9	B4	2:33 PM	DUWA ADEEL, Mihai Boicu	Utilization of "Learning by Mistake" through LMS

9	B5	2:45 PM	JENNA CAI, Xianjun Hao, John Qu	The impacts of climate change on wildland fire regimes in California
9	B6	2:57 PM	RAED MIRZA, Avrama Blackwell	Optimizing and Simplifying Computational Neural Simulation Techniques
10	B1	1:57 PM	SHREEKAR EARANTI, Duminda Wijesekera, Kamaljeet Sanghera, Mahbubul Palash	How can Wifi Access Points play a role in occupancy detection in a building for resource distribution?
10	B2	2:09 PM	EREN DEMIREL, Gowri Prathap, and Hamdi Kavak	Understanding Anti-American Views on Twitter
10	B3	2:21 PM	VAIBHAV GURUNATHAN, Saleet Jafri	Incorporating COVID-19 Ion Channel Adaptations to Understand Immune Response
10	B4	2:33 PM	CLARK MISENER, André de Lima, Celso Ferreira	Ecological Effects of Sea Level Rise in Maryland
10	B5	2:45 PM	MIA SALINAS, NAOMI ALEMAYEHU, Julia Wulfkuhle, Emanuel F. Petricoin, Rosa I. Gallagher	Proteomic Analysis of the Tumor Microenvironment in Breast Cancer: Method Optimizations for Laser Capture Microdissection and Reverse Phase Protein Microarray Studies
10	B6	2:57 PM	unscheduled	

15-Minute Break 3:09-3:24 PM

Session C, In-person and Hybrid Presentations					
Zoom Breakout room number	Session & presentation order	in-person location	Start Time Eastern Daylight Savings Time (DC time)	Authors' Names (Presenting Interns' Names are in all capitals)	Presentation Title
1	C1	Colgan 101A	3:24 PM	ANUM QRESHI, Ruth Zhang, Rachel Carter, Kathryn Cassels, Amanda Haymond Still	Optimization of Protein Painting Procedure for Removal of Paint Molecules from Small or Nonglobular Proteins Utilizing the Rab6/Km23-1 Complex
1	C2	Colgan 101A	3:36 PM	ELENA BENSON, Ralston Smith, Lee Solomon	Which IExD Tetrapeptide Inhibits Granzyme B the Best?
1	C3	Colgan 101A	3:48 PM	ANJINI VERDIA, NICOLE ORTUNO, JOHN PAUL SALVATORE, Gregory Stein	Can We Interpret a Robot's Predictions While Navigating in an Unknown Environment?
1	C4	Colgan 101A	4:00 PM	DAVID MASTRO, Iosif Vaisman	Machine Learning Approaches and Methods for Discriminating B-Cell Epitopes, specifically in Covid-19 Spike Proteins
1	C5	Colgan 101A	4:12 PM	ATHAN ZHANG, Mingrui Liu	Incremental Learning Disease Classification
1	C6	Colgan 101A	4:24 PM	SUDEEP ORVOY, Abul Hussam	A Measurement of Volatile Organic Carbon (VOC) In Human Breath Inside Masks: Are We Breathing Poor-Quality Air in Our Masks?
2	C1	Colgan 101E	3:24 PM	ANISHA TALREJA, Hari Bhandari,	Crystal Growth and Characterization of Kagome Magnet DyAgGe

				Peter Siegfried, Nirmal Ghimire	
2	C2	Colgan 101E	3:36 PM	SIERRA DILLER, Michael Summers	Calculating the Limitations Placed on Travel Speed in the Interstellar Medium by the Density of Interstellar Objects
2	C3	Colgan 101E	3:48 PM	OJAS CHAUDHARY, JAIDEN KHEMANI, Scott Knapp, Natalie Burls	The Relationship Between the East-West Surface Temperature Gradient, Tropical Pacific Ocean Heat Uptake, and Climate Sensitivity
2	C4	Colgan 101E	4:00 PM	SUNGJOON KIM, Diek Wheeler, Giorgio Ascoli	Identification of New Neuronal Types in the Hippocampal Formation of Mice's Brains Based on Morphology
2	C5	Colgan 101E	4:12 PM	JACOB YU, Yuriy Kim , Anastasia Williams , Fatah Kashanchi	Vaccine Effect of Extracellular Vesicles from HTLV-1 Infected Cells
2	C6	Colgan 101E	4:24 PM	ELIJAH MCCLENDON, Greg Petruncio, Mikell Paige, Suman Alishetty	TBAF-catalyzed One-step Transesterification of Lactones
3	C1	Colgan 101H	3:24 PM	HARSHAL LOBANA, Samantha Kanselaar, Jhumka Gupta	How can we empower women from forcibly displaced populations and promote shared decision-making in the household?

3	C2	Colgan 101H	3:36 PM	JIWOO HWANG, KAAVYA RADHAKRISHNAN, SCARLETT ADAMS, ARNAV MACHAVARAPU, Jinyi Kim, Hiba Siraj, Myeong Lee	How Do YouTubers Collaborate With Each Other? A Machine Learning and Network Analysis-Based Approach
3	C3	Colgan 101H	3:48 PM	AIDA A. JABBOUR, JAYA SHARMA, Grace Wild, Diego A. Gonzalez, Theodore C Dumas	In Situ Hybridization for Arc as a Measure of Novelty-Based Hippocampal Activation in Juvenile Transgenic Mice Expressing Chimeric GluN2 NMDA receptor subunits.
3	C4	Colgan 101H	4:00 PM	ACHRAF AZZAoui, William Kennedy	Exploring Income and Wealth Distributions using Agent-Based Modelling: How does Taxation Impact Economic Inequality?
3	C5	Colgan 101H	4:12 PM	ASHLEY DAVIS, PHONSIRIE NAVAMAL ANTIGONE STARK, AMY TSOU, EMMA YANG, IZIDOR YATSEVICH, AMANDA YUN, YASH NAYAK, Donielle Nolan	Isolating Globisporangium ultimum (Pythium ultimum) in vitro to Study Biofungicide Treatments on Amaranthus tricolor Hydroponic Microgreens
3	C6	Colgan 101H	4:24 AM	currently unscheduled	

4	C1	Colgan 101L	3:24 PM	SHRAVAN VELKUR, Mihai Boicu	It Is Time that the Classification of Entities Evolves
4	C2	Colgan 101L	3:36 PM	EVELYN GIRARDI, Erik Swenson, Mary Korendyke, David Straus	Studying the Latent Heat Release in Mid-Latitude Cyclones
4	C3	Colgan 101L	3:48 PM	RHEA TAMMIREDDI, Pooja Khatkar, Fatah Kashanchi	Effect of TAR Binding Molecules on HIV-1 Proviral Transcription
4	C4	Colgan 101L	4:00 PM	RIYANKA RAY, Madhav Shroff, Abdulaziz Alaboudi, Thomas LaToza	Towards the Automation of Information Gathering and Hypothesis in Debugging
4	C5	Colgan 101L	4:12 PM	ETHAN ZHANG, Shay Snyder, Maryam Parsa	Target Following of Robotic Fish using Spiking Neural Networks
4	C6	Colgan 101L	4:24 AM	currently unscheduled	
5	C1	Verizon Auditorium	3:24 PM	Inventors' Club	
5	C2	Verizon Auditorium	3:36 PM	Inventors' Club	
5	C3	Verizon Auditorium	3:48 PM	Inventors' Club	
5	C4	Verizon Auditorium	4:00 PM	Inventors' Club	

5	C5	Verizon Auditorium	4:12 PM	Inventors' Club	
5	C6	Verizon Auditorium	4:24 PM	Inventors' Club	

There are no remote presentations during Session C

Celebration of Research 5:00 PM to 6:15

Welcome

About the 2022 Cohort of Aspiring Scientists' Summer Internship Program

Recognition of 2022 ASSIP Mentors, Co-mentors, and Interns

Closing

Following the Celebration of Research-Distribution of 2022 ASSIP intern certificates and T-shirts to interns attending in-person