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ClarkFEST Spring 2022

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### ClarkFEST Spring 2022 Program Brochure

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Spring 2022

**Clark**

**FEST**

APRIL 27



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Dear Clarkies and Guests,

One of the most exciting events of the year at Clark is the display of the incredible work of our students at our fall and spring undergraduate academic festivals. Clarkies have known these as Fall Fest, which takes place in the fall, and Academic Spree Day, which takes place in late spring, near the conclusion of the academic year.

This year, we have renamed these festivals ClarkFEST, and this spring, we once again proudly showcase the culmination of our students' amazing research, creative, and experiential projects. This is the time and place where you can see up close and personal all the knowledge produced right here in our intellectually and socially engaged community.

This is our dedicated time to peruse exhibits, attend panels, ask questions, and learn from one another. After all, the impact of our work is measured only by how it registers with others. Let's celebrate and applaud each other, and share our work far and wide to challenge conventions and change our world.

Betsy Huang  
Dean of the College



*Photo Courtesy of Robert V. Stearns, Jr.*

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## ClarkFEST Spring 2022 General Information

The ClarkFEST Spring 2022 brochure is a listing of research, academic and creative works produced by Clark University's undergraduate students, under the guidance of their faculty and staff mentors, which is featured at this year's event. A variety of formats have been utilized by the presenters, including posters, oral presentations, panel discussions, art exhibits, movie trailers, and interactive media exhibits.

ClarkFEST Spring 2022 is a hybrid event. Presenters will be sharing their projects in-person, throughout Clark's main campus as well as our satellite location at Barrett Student Center, located at 80 William Street, Worcester, MA. Shuttle service is available at this location; schedule is available at [ClarkShuttle](#). There is also street parking available at this location.

In-person exhibits are open to all Clark community members and guests in accordance with Clark University's COVID guidelines.

Some presenters have also opted to share their materials via ClarkFEST Spring 2022's Virtual Expo, supported by Zoom Events, and will be indicated in the brochure with an "Also, Virtual" tag. Tickets to ClarkFEST Spring 2022 Virtual Expo are limited and registration is required. Clark community members who have not yet registered, may do so using the link: [ClarkFEST Spring 2022 Virtual Expo](#) External community members must email [clarkfest@clarku.edu](mailto:clarkfest@clarku.edu) prior to event start date/time to reserve a ticket.

We hope you enjoy ClarkFEST Spring 2022 and thank you for supporting Clark University's undergraduate students!



Please join us in Tilton Hall at 12:30 p.m. for the launch of ClarkFEST Spring 2022 with an introduction by guest speaker, Frederick Lawrence, Secretary/CEO Phi Beta Kappa, to be joined by President David Fithian and Sebastián Royo, Provost



**Frederick M. Lawrence, J.D.**  
**Secretary/CEO Phi Beta Kappa**

Frederick M. Lawrence is the 10th Secretary and CEO of the Phi Beta Kappa Society, the nation's first and most prestigious honor society, founded in 1776. Lawrence is a Distinguished Lecturer at the Georgetown Law Center, and has previously served as president of Brandeis University, Dean of the George Washington University Law School, and Visiting Professor and Senior Research Scholar at Yale Law School. He was elected to the American Philosophical Society in 2018 and the American Law Institute in 1999. Lawrence is the recipient of the 2019 Ernest L. Boyer Award from the New American Colleges and Universities, and the Council of Colleges of Arts and Sciences' Arts & Sciences Advocacy Award in 2018. B.A., Williams College; J.D., Yale University



**David Fithian, Ph.D.**  
**Clark University President**  
**Phi Beta Kappa Member**

David Fithian '87, a proud alumnus and a distinguished leader in the world of higher education, was named the president of Clark University in January 2020, only the 10th person to hold the position since the University was founded in 1887. He came to Clark from the University of Chicago, where he served as executive vice president. Before joining Chicago in 2007, Fithian served for 12 years at Harvard, as assistant dean of freshmen and, later, the Allston Burr Senior Tutor (resident dean) of Adams House. B.A., Clark University, 1987; M.A., Yale University, 1988; M. PHIL, Yale University, 1990; Ph.D., Yale University



**Sebastián Royo, Ph.D.**  
**Provost and Vice President for Academic Affairs**  
**Phi Beta Kappa Electee**

Sebastián Royo is Provost and Vice President for Academic Affairs and Professor of Political Science at Clark University. Prior to that, he served as Vice President of International Affairs and Professor in the Department of Political Science & Legal Studies at Suffolk University in Boston, where he also served as Acting Provost and Senior Vice President for Academic Affairs between August 2016 and August 2019. He was a Visiting Scholar at Harvard University's Minda de Gunzburg Center for European Studies in 2019-20. Royo holds a law degree from the Universidad Autónoma de Madrid, a master of arts in international relations, a master of business administration, and a Ph.D. in political science all from Boston University.

# ClarkFEST Spring 2022 Program

## INTERACTIVE MEDIA EXHIBITS BARRETT STUDENT CENTER

Becker School of Design and Technology (BSDT) students shall be presenting from 12:30 p.m.-4:30 p.m. at the Barrett Student Center, located at 80 William Street, Worcester, MA. Limited street parking is available. Clark also provides a shuttle to/from Becker every 30 minutes. Pickup is in front of Estabrook Hall. Details about shuttle service can be found at <https://www.clarku.edu/transportation/clarkshuttle/>



### Art: 2D Art (Interactive Media/Game Design & Development Major)

1. *Clark After Dark*. **Isabelle D'Angelo '23**. (Sponsor: Professor Terrasa Ulm)  
*Also, Virtual*
2. *Mostly Mobile - UI/UX Showcase*. **Brandon DeLuso '22**. (Sponsor: Professor Terrasa Ulm)
3. *Iconic Icons - UI/UX Showcase*. **Sarah Madar '22**. (Sponsor: Professor Terrasa Ulm)
4. *Character Design*. **Elizabeth Nicolaysen '22**. (Sponsor: Professor Kat Andler)
5. *StarEyedUnicorn*. **Paige Tvede '22**. (Sponsor: Professor Ezra Cove)

### Art: 3D Art (Interactive Media/Game Design & Development Major)

6. *Explorations in Virtual Spaces*. **Mengliu Lu '22**. (Sponsor: Professor Terrasa Ulm)  
*Also, Virtual*
7. *3D Animation Portfolio*. **Ethan Nappi '22**. (Sponsor: Professor Kat Andler)
8. *Andy Osorno's Showcase*. **Andy Osorno '22**. (Sponsor: Professor Terrasa Ulm)  
*Also, Virtual*

### Game Design & Development (Interactive Media)

9. *Robert DeRosa Portfolio*. **Robert DeRosa '22**. (Sponsor: Professor Kat Andler)  
*Also, Virtual*



## ClarkFEST Spring 2022 Program

### INTERACTIVE MEDIA EXHIBITS CONT... BARRETT STUDENT CENTER

10.	<i>Grieg: 3D Visualizations.</i> <b>Edward Greig '23</b> with Alex Ruta, Graduate Student. (Sponsor: Professor Terrasa Ulm) <i>Also, Virtual</i>
11.	<i>Gallant Mage: Procedural Generation.</i> <b>George Hall '22.</b> (Sponsor: Professor Terrasa Ulm)
12.	<i>Cole Klimoski Portfolio.</i> <b>Cole Klimoski '23.</b> (Sponsor: Professor Terrasa Ulm) <i>Also, Virtual</i>
13.	<i>Sci-Fi Fantasy Writings, Musings, and Outbursts.</i> <b>Ian Perkins '22.</b> (Sponsor: Professor Terrasa Ulm) <i>Also, Virtual</i>
14.	<i>Game Programmers Portfolio showcase.</i> <b>Sean Sarmiento '22.</b> (Sponsor: Professor Terrasa Ulm)
15.	<i>Trevor Tally Portfolio.</i> <b>Trevor Tally '22.</b> (Sponsor: Professor Terrasa Ulm)
16.	<i>Louis Wong Portfolio.</i> <b>Louis Wong '22.</b> (Sponsor: Professor Kat Andler) <i>Also, Virtual</i>
<b>Interactive Media (Game Design &amp; Development)</b>	
17.	<i>Designs and Media by Arielle Johnson.</i> <b>Arielle Johnson '25.</b> (Sponsor: Professor Terrasa Ulm) <i>Also, Virtual</i>
18.	<i>Showcase Works of a Burgeoning Game Designer.</i> <b>Max Koppel '22.</b> (Sponsor: Professor Terrasa Ulm) <i>Also, Virtual</i>
19.	<i>3D Art Showcase.</i> <b>Nathaniel Manfra '24.</b> (Sponsor: Professor Terrasa Ulm)
20.	<i>Upheaveal.</i> <b>Christopher Mattarelli '24 and Daniel Zhu '23</b> with Sebastian Schindler, Graduate Student. (Sponsor: Professor Terrasa Ulm)
21.	<i>Irvin Rivas presents: The Fresh Canvas.</i> <b>Irvin Rivas '22.</b> (Sponsor: Professor Kat Andler)
22.	<i>Julian Vaill Portfolio.</i> <b>Julian Vaill '22.</b> (Sponsor: Professor Kat Andler)
<b>Programming (Interactive Media/Game Design &amp; Development Major)</b>	
23.	<i>Standard Dungeon Crawler.</i> <b>Tristan Sistare '22 and Mikey Schubert '22.</b> (Sponsor: Professor Terrasa Ulm)

## ClarkFEST Spring 2022 Program

### INTERACTIVE MEDIA EXHIBITS CONT... BARRETT STUDENT CENTER

<b>UI/UX (Interactive Media/Game Design &amp; Development Major)</b>		
24.	<i>David Beaudoin Portfolio. David Beaudoin '22.</i> (Sponsor: Professor Kat Andler) <b>Also, Virtual</b>	
25.	<i>Margaret Brooks' Portfolio. Margaret Brooks '22.</i> (Sponsor: Professor Kat Andler) <b>Also, Virtual</b>	
26.	<i>A Blast from the Past ~ Return of the Ball Game. Raven Clarico '23.</i> (Sponsor: Professor Terrasa Ulm)	
267	<i>Christopher Delany Portfolio. Christopher Delany '22.</i> (Sponsor: Professor Kat Andler) <b>Also, Virtual</b>	
28.	<i>Lyly Pham's Portfolio. Lyly Pham '22.</i> (Sponsor: Professor Kat Andler) <b>Also, Virtual</b>	
29.	<i>Angelo Sepulveda Portfolio. Angelo Sepulveda '22.</i> (Sponsor: Professor Kat Andler)	
30.	<i>Nicholas Whipple Portfolio. Nicholas Whipple '22.</i> (Sponsor: Professor Kat Andler)	
<b>Writing (Interactive Media/Game Design &amp; Development Major)</b>		
31.	<i>Wings of Melting Wax. Kaylin Canon '22.</i> (Sponsor: Professor Amanda Theinert)	
<p>From 3:00 p.m.-4:30 p.m., the following BSDT students shall be engaged in pre-arranged closed meetings via ClarkFEST Spring 2022 Virtual Expo with prospective employers.</p>		
Brandon DeLuso Sarah Madar Sean Sarmiento Tristan Sistare and Mikey Schubert Mengliu Lu	Ethan Nappi Andy Osorno Max Koppel David Beaudoin Nicholas Whipple	Edward Grieg Cole Klimoski Nathaniel Manfra Raven Clarico Christopher Delaney



# ClarkFEST Spring 2022 Program

## ORAL PRESENTATIONS AND PANELS

### SHAICH FAMILY ALUMNI AND STUDENT ENGAGEMENT CENTER

### GODDARD LIBRARY

<b>Prouty Conference Room (Goddard Library, 4<sup>th</sup> Floor)</b>	
<b>English Department Oral Presentations (12:30-1:30 pm)</b>	
12:30 – 1:30pm	<i>Trans* Readings of Tiresias in Modernism (Honors Thesis)</i> . <b>Henley Ballou '22</b> . (Sponsor: Professor Elizabeth Blake)
<b>Fuller Conference Room (Goddard Library, 4<sup>th</sup> Floor)</b>	
<b>English Department Oral Presentations (12:30-2:20 pm)</b>	
12:30 – 1:20 pm	<i>The Natural Other: Political Logics of Universalized Difference in Shakespearean Drama</i> . <b>Frankie Hurley '22</b> . (Sponsor: Professor Justin Shaw)
1:30 – 2:20 pm <b>Also, Virtual</b>	<i>Archives and Literary History: Anderson House</i> . <b>Christina Rose Walcott '23</b> . (Sponsor: Professor Justin Shaw)
<b>Political Science Honors Theses Presentations (2:30-3:30 pm)</b>	
2:30– 2:45 pm <b>Also, Virtual</b>	<i>The YPJ in the Popular Press: The Nexus of Ideology, Agency, and Gender</i> . <b>Atticus Flanagan-Burt '22</b> . (Sponsor: Professor Suzanne Scoggins)
2:50 – 3:05pm <b>Also, Virtual</b>	<i>Comparing the United States and Germany in support of Multilateralism and Global Cooperation: The Impact of National Identity Construction on Foreign Policy Behavior, 1989 - 2019</i> . <b>Kadijha Kuanda '22</b> . (Sponsor: Professor Michael Butler)
3:10 – 3:30 pm <b>Also, Virtual</b>	<i>A Fork in the Road: How Cause Lawyers of the Right and Left Differ in Methods and Execution</i> . <b>Evan Medcraft '22</b> . (Sponsor: Professor Heather Silber Mohamed)
<b>Sociology Oral Presentation (3:45-4:15 pm)</b>	
3:45 – 4:15 pm <b>Also, Virtual</b>	<i>The Social Significance of the "Magic: the Gathering" Community and its Spaces</i> . <b>Claire Cohen '22</b> . <b>Steinbrecher Fellowship</b> (Sponsor: Professor Patricia Ewick)

# ClarkFEST Spring 2022 Program

## ORAL PRESENTATIONS AND PANELS CONT...

### SHAICH FAMILY ALUMNI AND STUDENT ENGAGEMENT CENTER GODDARD LIBRARY

<b>ASEC 111 (The Shaich Family Alumni and Student Engagement Center, 1<sup>st</sup> Floor)</b>	
<b>International Development and Social Change Presentations 12:30-1:30 pm</b>	
12:30 – 12:50 pm	<i>Behind Closed Doors and In the Streets: Sex Worker Organizing in Post-Recriminalization Rhode Island.</i> <b>Colleen Falconer '22, Steinbrecher Fellowship</b> (Sponsor: Professor Denise Humphreys Bebbington)
1:00 – 1:30 pm <b>Also, Virtual</b>	<i>Stakeholder Involvement in Legislating Food Sovereignty: A Case Study of the 2017 Maine Food Sovereignty Act.</i> <b>Emily Braddock '22.</b> (Sponsor: Professor Margaret Post)
<b>Media, Culture, and the Arts Presentation 2:00-3:10 pm</b>	
2:00 – 3:10 pm <b>Also, Virtual</b>	<i>Perspectives on the Sublime.</i> <b>Sarah Kane '23, Jillian Stone '23, William Talbot '23 and Giancarlo Richardson Villenas '23.</b> (Sponsors: Professors Benjamin Korstvedt and Wiebke Deimling)
<b>Music Presentations 3:30-4:00 pm</b>	
3:30 – 4:00 pm	<i>Seniors Love Jazz.</i> <b>Thomas Mueller '22, Steinbrecher Fellowship</b> (Sponsor: Professor Nancy Budwig)
<b>ASEC 202 (The Shaich Family Alumni and Student Engagement Center, 2nd Floor)</b>	
<b>Community, Youth, and Education Studies Presentations (12:30-12:50 pm &amp; 3:30-4:30 pm)</b>	
12:30 – 12:50 pm <b>Also, Virtual</b>	<i>Systemic Racism Training for Youth Workers: An examination of female aligned youth workers experiences.</i> <b>Sarah Krambeer '22.</b> (Sponsor: Professor Sarah Michaels)
3:30 – 4:30 pm <b>Also, Virtual</b>	<i>Community Youth, and Education Studies Thesis Research: Integrating Theory and Action for Change.</i> <b>Elena Sissell '22, Willow McKeon '22, Lillian Bufalino '22, and Ilaria Fiorenza '22.</b> (Sponsor: Professor Sarah Michaels)
<b>History Department Honors Theses (1:00-3:00pm)</b>	
1:00 – 1:20 pm <b>Also, Virtual</b>	<i>"Your mother was a princess in darkness": Black Power Feminism and the Creation of Black Women's Studies.</i> <b>Kam Barrows '22.</b> (Sponsor: Professor Amy Richter)
1:25 – 1:45 pm <b>Also, Virtual</b>	<i>Frau Doktor: The Fate of Jewish Female Physicians in Interwar Central Europe.</i> <b>Katherine Gross '22.</b> (Sponsor: Professor Amy Richter)



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## ClarkFEST Spring 2022 Program

### ORAL PRESENTATIONS AND PANELS CONT...

#### SHAICH FAMILY ALUMNI AND STUDENT ENGAGEMENT CENTER GODDARD LIBRARY

1:50 – 2:10 pm Also, Virtual	<i>"The John Brown Way": The Legacies of Abolitionist Violence, 1859-60.</i> <b>Alexander Hewes '22.</b> (Sponsor: Professor Amy Richter)
2:15 – 2:35 pm Also, Virtual	<i>Educating Full Citizens: Black Voter Education in North Carolina in the 1960s.</i> <b>Adam Liebell-McLean '22.</b> (Sponsor: Professor Amy Richter)
2:40 – 3:00 pm Also, Virtual	<i>Missionaries in the Levant during the Late Nineteenth and Early Twentieth Centuries.</i> <b>Cole Norman '22.</b> (Sponsor: Professor Amy Richter)

### A LITTLE ABOUT THE RESEARCH EXPERIENCE AT CLARK UNIVERSITY...

*All of my writing is Sci-Fi Fantasy. Many of my characters take traits from people I've met. It is thanks to the wonderful Creative Writing: Short Fiction class that I am currently in that I have the courage to actively put more of my work out there to be showcased thanks to their discussions and encouragement. The research I do is about mythology across the world. About the many different monsters, creatures, and god(s/esses) from different cultures. While I put my own twists for entertainment purposes, I try to represent them as best I can. For some of my work involving more science than fiction, I've researched astrology, and have found inspiration for many a character or plot point in the sky.*

–Ian Perkins '22, Game Design & Development (Interactive Media)

*Our research is inspired by our past educational experiences, Liz is a first generation college student herself. Being able to explore this topic has been a useful tool for us both in and outside the classroom. Our research has helped enable us to think deeply about our learning and use our findings in all aspects of classroom dialogue.*

–Elizabeth Mahon '23 and Julie Kennedy '24, Psychology

# ClarkFEST Spring 2022 Program

## ART EXHIBITS

### HIGGINS OUTDOOR TENT

### SCHILTKAMP GALLERY/TRAINA CENTER FOR THE ARTS

Visual and Performing Arts Department shall be presenting their creative works and performances in-person across multiple dates, times and venues; however, some students have elected to include their works in ClarkFEST Spring 2022's Virtual Expo.

#### Higgins Outdoor Tent

*Docupoetry Prints: History on Fabric, Voices from Events.* **Anh (Anna) Le '23 and Marta Szemiot '23.**  
(Sponsor: Professor Jan Johnson)

with contributions by:

**Parker L. Doerr '24; Anthony Fantin '23; Ellie Garfield '22 (Masters); Halley Gellatly '22;**

**Thea Henry '23; G Jurcic '22; Alyosha Otogawa '22; Sage Rumery '24;**

**Eva Tsimboukis '22 (Masters); Martina Villanueva '23; and Emma Weigele '24**

#### Schiltkamp Gallery/Traina Center for the Arts

##### Studio Art Senior Thesis Exhibition

*The Gods I Call Friends.* **Mads Graham '22.** (Sponsor: Professor Elli Crocker)

*To be composted.* **Dimitri Koufis '22.** (Sponsor: Professor Elli Crocker)

*Impact of Murals.* **Charisma Nguyen-Lai '22.** (Sponsor: Professor Elli Crocker)

*Mini Mart.* **Nadia Sostek '22.** (Sponsor: Professor Elli Crocker)

*Coordination Station: Planner Stationery Company.* **Anna-Li St. Martin '22.** (Sponsor: Professor Elli Crocker)

*Kasturi's Senior Thesis.* **Kasturi Thonangi '22.** (Sponsor: Professor Elli Crocker)

*thesis show.* **Bea Winn '22.** (Sponsor: Professor Elli Crocker)

Spring 2022 Clark University Festival concert on April 27th at 7:30 p.m. at Mechanics Hall! The Clark University Chorus and Sinfonia will be joined by the New England Repertory Orchestra in a concert of German choral-orchestral masterpieces featuring Felix Mendelssohn's Overture "The Hebrides" and Ludwig van Beethoven's "Meeresstille und Glückliche Fahrt" and "Choral Fantasy". Featuring: Professor Cailin Marcel Manson, conductor & Professor Yelena Beriyeva, piano soloist. Visit <https://www.clarku.edu/departments/visual-and-performing-arts/event/clark-university-festival-concert/> to learn more about this event.



# ClarkFEST Spring 2022 Program

## POSTER SESSIONS

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

#### Biochemistry and Molecular Biology

1.	<i>Biochemical and Structural Analysis of Ultrabithorax: An Important Developmental Protein in Drosophila Melanogaster.</i> <b>Mia Advocate '22.</b> (Sponsor: Professor Donald Spratt) <b>Also, Virtual</b>
2.	<i>HERC5 &amp; ISG15: Key Players in the Body's Fight Against Viral Invaders.</i> <b>Amanda Brown '23.</b> (Sponsor: Professor Donald Spratt)
3.	<i>Cloning of the Photosynthetic Protein PsbN in Iron-Sensitive Marine Cyanobacteria.</i> <b>Emily Cai '22</b> with Shafer Belisle, Graduate Student. (Sponsor: Professor Nathan Ahlgren)
4.	<i>Effects of tRNA methylation on protein synthesis in Dictyostelium discoideum.</i> <b>Chau Duong '22.</b> (Sponsor: Professor Denis A. Larochelle) <b>Also, Virtual</b>
5.	<i>A Coordinated Defense Against Viral Infection: HERC5 &amp; the ISGylation Pathway.</i> <b>Ilina Ivanova '22.</b> (Sponsor: Professor Donald Spratt)
6.	<i>pKa measurement by pH titration for the HECT E3 ubiquitin ligase ITCH.</i> <b>Ivana Lopez-Nieves '22.</b> (Sponsor: Professor Donald Spratt)
7.	<i>Optimization of GST-Rac1 Purification and Biochemical Analysis.</i> <b>Luke Mazur '23</b> with Emma Kane, Graduate Student. (Sponsor: Professor Donald Spratt)
8.	<i>Biophysical Analysis of the Structure and Function of HERC2 RLD domains with Disease-State Substitutions.</i> <b>Marimo Oka '22</b> with Kelly Waters, Graduate Student. (Sponsor: Professor Donald Spratt)
9.	<i>Nitric Oxide Production in the Marine Diatom Phaeodactylum tricornutum.</i> <b>Francesco Rizzini Bisinelli '22.</b> (Sponsor: Professor Deborah Robertson) <b>Also, Virtual</b>
10.	<i>Deciphering the Solubility of the Extended HECT Domain of HERC4.</i> <b>Johanna Schafer '22</b> with Young Sun Lee, Graduate Student. (Sponsor: Professor Donald Spratt) <b>Also, Virtual</b>

# ClarkFEST Spring 2022 Program

## POSTER SESSIONS CONT...

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

<b>Biology</b>	
11.	<i>The Effects of Increasing Environmental Temperature on Aggression in Acorn Nesting Ants.</i> <b>Joshua Canning '22. Summer Undergraduate Research Experience</b> (Sponsor: Professor Kaitlyn Mathis)
12.	<i>The Evolution of Antipredator Morphology, and its Phenotypic Plasticity, in Threespine Stickleback Populations Following the Invasion of Northern Pike.</i> <b>Anna Gilmartin '22</b> with Dale R. Stevens II, Graduate Student. (Sponsor: Professor Kaitlyn Mathis) <b>Also, Virtual</b>
13.	<i>The evolution of body shape plasticity in threespine stickleback populations following the invasion of an invasive predator, northern pike.</i> <b>Sydney Macedo '22</b> with Dale R. Stevens II, Graduate Student. (Sponsor: Professor Kaitlyn Mathis)
14.	<i>Beetle Abundance and Richness Across Urban and Rural Landscapes of Greater Worcester County.</i> <b>Alexandra Mars '22</b> with Amelia Curry, Graduate Student. (Sponsor: Professor Kaitlyn Mathis)
15.	<i>Determining the Effectiveness of Fungal and Plant Extracts as Medicine for Honey Bees Fighting Deformed Wing Virus.</i> <b>Christina Martin '22. Summer Undergraduate Research Experience</b> (Sponsors: Professor David Hibbett and Professor Kaitlyn Mathis)
16.	<i>Overlook Field Pollinator Habitat Restoration at Barre Falls Dam.</i> <b>Athena Mele '22.</b> (Sponsor: Professor Elizabeth Bone) <b>Also, Virtual</b>
17.	<i>The role of Wnt signaling during early development of the annelid <i>Capitella teleta</i>.</i> <b>Cristina Oliver '22.</b> (Sponsor: Professor Neva Meyer)
18.	<i>Nodal Experiments in <i>Capitella teleta</i>.</i> <b>Ryan Swanke '22.</b> (Sponsor: Professor Neva Meyer)
19.	<i>BMP-4 and Wnt Signaling Influence on Pigment Cell Development in the Annelid <i>Capitella teleta</i>.</i> <b>Vanessa Tischofer '22.</b> (Sponsor: Professor Neva Meyer)
<b>Chemistry</b>	
20.	<i>Passive Thermal Regulation of Buildings Using Phase Change Materials.</i> <b>Thuy-Mi Le '22</b> with Pramod Mishra, Graduate Student. (Sponsor: Professor Sergio Granados-Focil)



# ClarkFEST Spring 2022 Program

## POSTER SESSIONS CONT...

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

<b>Computer Science</b>	
21.	<i>Characterizing and Moderating Parasocial Interactions in Online Hate Videos.</i> <b>Jonathan Hoff '22</b> (Sponsor: Professor Shuo Niu)
22.	<i>Camera Mouse: Sound-Based Activation as a New Approach to Click Generation.</i> <b>Phoenix Pagan '23 &amp; Hanvit Choi '23.</b> (Sponsor: Professor John Magee) <b>Also, Virtual</b>
23.	<i>Computer-Generated Art as NFTs.</i> <b>Caleb Sacks '23.</b> (Sponsor: Professor John Magee)
<b>Economics</b>	
24.	<i>Issues of Abundance: The Effects of the Resource Curse on Inequality.</i> <b>Nassim Ali Ahmad '22.</b> (Sponsor: Professor John Brown)
25.	<i>Regulatory Shocks on Cryptocurrency Markets.</i> <b>Jonas Davis '22</b> (Sponsor: Professor Zhenyang Tang)
26.	<i>A Pandemic of Inequality: Demographic Disparities in COVID-Related Unemployment.</i> <b>Zander Donowitz '22.</b> (Sponsor: Professor Wayne Gray)
27.	<i>The Impact of Free Trade Agreements on Vietnam Trade.</i> <b>Bich (Jade) Hoang '22.</b> (Sponsor: Professor Suprabha Baniya) <b>Also, Virtual</b>
28.	<i>The Impact of CPEC Infrastructure Investment on the Trade Flows of Countries Impacted by it.</i> <b>Sara Kashif '22</b> (Sponsor: Professor David Cuberes) <b>Also, Virtual</b>
29.	<i>Economic Growth vs Environmental Degradation: The Impact of Foreign Investment on Air Quality in Asia.</i> <b>Ashna Siddhi '22.</b> (Sponsor: Professor Jacqueline Geoghegan) <b>Also, Virtual</b>
<b>English</b>	
30.	<b>Prentiss Cheney Hoyt Poetry Contest</b> 1st Place <b>Mallory Trainor '22</b> for "I Dream in Time Lapse" 2nd Place <b>Jesse Lowe '24</b> for "( )" (Parentheses) 3rd Place <b>Ursula Zia '24</b> for "Becoming an Air Plant"

# ClarkFEST Spring 2022 Program

## POSTER SESSIONS CONT...

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

31.	<p><b>Betty '79 &amp; Stanley Sultan Short Story Contest</b>            1st Place <b>Juliana Hall '24</b> for "<i>The Disappearance of Persephone Reid</i>"            2nd Place <b>Olivia Wilde '23</b> for "<i>Backyard Eulogy</i>"            3rd Place <b>Jesse Lowe '24</b> for "<i>I Have Not Drowned</i>"</p>
32.	<p><b>Loring Holmes &amp; Ruth Dodd Drama Contest</b>            1st Place <b>Dylan Parra '22</b> for "<i>The Trees Don't Talk Anymore</i>"            2nd Place <b>Kelsey Heyel '23</b> for "<i>Funeralia</i>"            3rd Place <b>Luke Pound '22</b> for "<i>Flying Through Windows</i>"</p>
33.	<p><b>Leroy Allston Ames Essay Contest</b>            1st Place <b>Christina Rose Walcott '23</b> for "<i>Subverting the Sexual and Romantic Perceptions: Black Female Identity in Iola Leroy</i>"            2nd Place <b>Kylee Rutkiewicz '21</b> for "<i>The Use of the Doppelganger in Dr Jekyll and Mr Hyde</i>"            3rd Place <b>Kelsey Heyel '23</b> for "<i>On Victorian Dress and Gender Nonconformity</i>"</p>
<b>Entrepreneurship and Innovation</b>	
34.	<p><i>Community based entrepreneurship.</i> <b>Manny Bowman '23.</b> (Sponsor: Professor John Dobson)            NOTE: Manny Bowman's Food Truck will also be onsite in Red Square during the festival.</p>
<b>French and Francophone Studies</b>	
35.	<p><i>Les débuts d'une traduction de Fin de section de Guy Hocquenghem, auteur, militant, et théoricien queer.</i>  <b>Mia Swartz '22.</b> (Sponsor: Professor Allison Fong)  <i>Also, Virtual</i></p>
<b>Geography</b>	
36.	<p><i>Constructing Chinatown: Community Resistance Against Symbolic Displacement.</i> <b>Julia Chun '22.</b>            (Sponsor: Professor Mark Davidson)  <i>Also, Virtual</i></p>
<b>Holocaust and Genocide Studies</b>	
37.	<p><i>Re-Education after the Khmer Rouge.</i> <b>Melinda Thach '22.</b> (Sponsor: Ken MacLean)</p>

# ClarkFEST Spring 2022 Program

## POSTER SESSIONS CONT...

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

#### Human Environment Regional Observatory (Environmental Science and Geography Majors)

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| 38. | <i>Modeling the Impact of Green Infrastructure on Stormwater Flood Mitigation in Worcester, Massachusetts Using i-Tree Hydro.</i> <b>Veronica Apple Gould-Schultz '23</b> with Nicholas Geron and Marc Healy, Graduate Students. <b>Human Environment Regional Observatory</b> (Sponsor: Professor John Rogan)         |
| 39. | <i>Examining Impacts of Land Cover Change and Residential Development on an Urban Wetland Ecosystem.</i> <b>Sarah Hughes '23</b> with Nicholas Geron and Marc Healy, Graduate Students. <b>Human Environment Regional Observatory</b> (Sponsor: Professor John Rogan)<br><i>Also, Virtual</i>                          |
| 40. | <i>Examining Local Climate Zones in the Context of the Urban Heat Island Effect; A case study in Worcester Massachusetts.</i> <b>Madeline Regenye '22</b> with Nicholas Geron and Marc Healy, Graduate Students. <b>Human Environment Regional Observatory</b> (Sponsor: Professor John Rogan)<br><i>Also, Virtual</i> |
| 41. | <i>Mapping Urban Tree Canopy Change in the Columbus Park Neighborhood in Worcester, Massachusetts from 1952-2018.</i> <b>David Henriques '22.</b> with Nicholas Geron and Marc Healy, Graduate Students. <b>Human Environment Regional Observatory</b> (Sponsor: Professor John Rogan)<br><i>Also, Virtual</i>         |
| 42. | <i>Land Use Projections and Vulnerability in the Broad Meadow Brook Wildlife Sanctuary, Worcester, Massachusetts.</i> <b>Caleigh McLaren '22</b> with Nicholas Geron and Marc Healy, Graduate Students. <b>Human Environment Regional Observatory</b> (Sponsor: Professor John Rogan)                                  |

#### International Development and Social Change

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| 43. | <i>The Downfalls of Durable Solutions: Afghan Refugees.</i> <b>Zahra Hamim '22.</b> (Sponsor: Professor Anita Fabos)   |
| 44. | <i>Dialogue Dilemmas: The Role of Free Prior and Informed Consent in Largescale Development – the Kukama People and the Hidrovía Amazónica of Peru.</i> <b>Alexis Restum '22.</b> (Sponsor: Professor Denise Humphreys Bebbington) |



# ClarkFEST Spring 2022 Program

## POSTER SESSIONS CONT...

### TILTON HALL

### UNIVERSITY CENTER, 2ND FLOOR

Mathematics	
45.	<i>Wallpaper Group.</i> <b>Hancheng Miao '22.</b> (Sponsor: Professor Gideon Bahir-Maschler)
46.	<i>Matrix Group.</i> <b>Qianpeng Wang '22.</b> (Sponsor: Professor Gideon Bahir-Maschler)
Physics	
47.	<i>Experimental Measure of Oxygen Dynamics of a Microbial Community.</i> <b>Oshani Fernando '22.</b> (Sponsor: Professor Alexander Petroff)
48.	<i>Pattern Formation of Cellular Membrane's Composition and Decomposition Curvature Coupling.</i> <b>Abdulai Gassama '22.</b> (Sponsor: Professor Ranjan Mukhopadhyay)
49.	<i>Clark Small Radio Telescope: Complete Restoration.</i> <b>PJ Riales '22.</b> (Sponsor: Professor Charles Agosta)
50.	<i>Manipulation of a Charge Density Wave State in 1T-TaS<sub>2</sub> by Application of Strain.</i> <b>Hope Robinson '23.</b> (Sponsor: Professor Michael Boyer)
51.	<i>Collective Dynamics in Chiral Granular Gases.</i> <b>Christopher Whittington '22.</b> <b>Edwin A. Weiller Summer Fellowship</b> (Sponsor: Professor Arshad Kudrolli)
Psychology	
52.	<i>The Link Between Binge Drinking Culture and Substance Use.</i> <b>Whitney Andrew '22</b> with Nora Kline, Graduate Student. (Sponsor: Professor Kathleen Palm Reed) <b>Also, Virtual</b>
53.	<i>Performative Activism: Exploring the impact of hashtags and infographics on resistance against Anti-Asian hate.</i> <b>Aanandita Bali '23.</b> (Sponsor: Graduate Student Hu Young Jeong)
54.	<i>Jewish Americans' Comparisons of Ingroup and Outgroup Suffering: Intragroup differences and the influence of social positionalities.</i> <b>Aidan Carter '22.</b> (Sponsor: Professor Johanna Vollhardt) <b>Also, Virtual</b>
55.	<i>Narratives of Joining Resistance: An Analysis of Jewish Holocaust Survivor's Testimonies.</i> <b>Drew Cheriff '22.</b> (Sponsor: Professor Johanna Vollhardt)

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## ClarkFEST Spring 2022 Program

### POSTER SESSIONS CONT... TILTON HALL UNIVERSITY CENTER, 2ND FLOOR

56.	<i>Narratives of Fear: An Analysis of Jewish-Polish Women Who Are Holocaust Survivor's Testimonies.</i> <b>Drew Cheriff '22.</b> (Sponsor: Professor Johanna Vollhardt)
57.	<i>Use of Language in Adult Tutoring Sessions: What Role does Code-Switching Play?</i> <b>Ilaria Fiorenza '22.</b> (Sponsor: Professor Alena Esposito) <i>Also, Virtual</i>
58.	<i>Do Parents Know Best? The Impact of Parental Alcohol Attitudes on College Students' Drinking Habits.</i> <b>Sarah Fraher '22</b> with Nora Kline, Graduate Student. (Sponsor: Professor Kathleen Palm Reed) <i>Also, Virtual</i>
59.	<i>Being and Belonging: Latinx Othering in Higher Education.</i> <b>Adelyn Garcia '22.</b> (Sponsor: Professor Esteban Cardemil)
60.	<i>The Urge to Drink Alcohol: The Role of Injunctive and Descriptive Norms.</i> <b>Brandan Gunarathne '23</b> (Sponsor: Professor Kathleen Palm Reed)
61.	<i>Childhood Physical Abuse and Marijuana Use.</i> <b>Elysia Hall '23</b> with Nora Kline, Graduate Student. (Sponsor: Professor Kathleen Palm Reed)
62.	<i>The Formation of Friendships in Thailand.</i> <b>Kevin Irwin '22.</b> (Sponsor: Professor Michael Bamberg) <i>Also, Virtual</i>
63.	<i>What Predicts Math Anxiety and Math Achievement? Spontaneous conceptualization of rational numbers as quantities .</i> <b>Hallie Johnson '22</b> with Sangmi Park, Graduate Student. (Sponsor: Professor Alena Esposito) <i>Also, Virtual</i>
64.	<i>Students' Reflections on High School Engaged Learning Experiences: What skills do they bring to college?</i> <b>Raquel Jorge Fernandes '23 &amp; Dela Bernard '23</b> with Jimin Lee, Graduate Student. (Sponsor: Professor Nancy Budwig) <i>Also, Virtual</i>
65.	<i>Student perception of preparedness for college: Does parent education level have an impact?</i> <b>Liz Mahon '22 and Julia Kennedy '24</b> with Jimin Lee, Graduate Student. (Sponsor: Professor Nancy Budwig) <i>Also, Virtual</i>

## ClarkFEST Spring 2022 Program

### POSTER SESSIONS CONT... TILTON HALL UNIVERSITY CENTER, 2ND FLOOR

66.	<i>The Perceptions of Five Different Spanish Accents in a College Setting.</i> <b>Kaela Muñoz '22.</b> (Sponsor: Professor Alena Esposito)
67.	<i>Transgender Individuals and Sex Education Experiences.</i> <b>Taylor Murphy '22</b> with Maddie Logan, Graduate Student. (Sponsor: Professor Abbie Goldberg)
68..	<i>Elementary School Students' Experiences of School Anxiety and the Moderating Effects of Teacher-Child and Parent-Child Relationships on Academic and Socioemotional Outcomes.</i> <b>Jay Papa '22. LEEP Fellowship.</b> (Sponsor: Professor Ana Marcelo)
69..	<i>Learning Intersectionality and Compound Discrimination: An Eye Tracking Pilot.</i> <b>Eric Peet '22</b> with Jayantika Chakraborty, Graduate Student. (Sponsor: Professor Alena Esposito)
70..	<i>Family Empowerment in the Management of Childhood Asthma.</i> <b>Lindsay Piscitelli '24, Ashley Hayes '23, Emma White '23, &amp; Zahara Shidad '22.</b> (Sponsor: Professor Maria Teresa Coutinho) <b>Also, Virtual</b>
71..	<i>The role of community involvement on substance use and self-esteem among GBQ+ Latinx men.</i> <b>Samuel Pomann '23</b> with Jose Rosario, Graduate Student. (Sponsor: Professor Esteban Cardemil) <b>Also, Virtual</b>
72.	<i>That's What They Say: Cognitive Dissonance and Grammaticality with Singular They.</i> <b>Luke Pound '22. Simon and Eve Colin Award for Undergraduate Creativity in Psychology</b> (Sponsor: Professor Alena Esposito) <b>Also, Virtual</b>
73..	<i>Difficulties Arabic and Hebrew students experience while learning EFL as an oral language: The role of multilingualism, language attitudes and educational practices.</i> <b>Fatima Qutab '22.</b> (Sponsor: Professor Elena Zaretsky)
74..	<i>Access to Community Play Resources Among Economically Disadvantaged Youth.</i> <b>Kate Rivard-Lentz '22. Steinbrecher Fellowship</b> (Sponsor: Professor Ana Marcelo)
75.	<i>Lift Every Voice and Sing: The Impact of Racial Violence on Intergenerational Trauma.</i> <b>Mya Stafford '22.</b> (Sponsor: Professor Johanna Vollhardt) <b>Also, Virtual</b>
76..	<i>Differences in caregiver empowerment as a function of health insurance status in ethnic minority children.</i> <b>Emma White '23.</b> (Sponsor: Maria Teresa Coutinho) <b>Also, Virtual</b>



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## ClarkFEST Spring 2022 Program

POSTER SESSIONS CONT...  
TILTON HALL  
UNIVERSITY CENTER, 2ND FLOOR

### Screen Studies

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| 77. | <i>Brazilian Immigrants in Massachusetts Through Documentary Filmmaking.</i> <b>Raquel Jorge Fernandes '23.</b><br><b>Steinbrecher Fellowship</b> (Sponsor: Professor Hugh Manon)<br><i>Also, Virtual</i> |
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### Spanish

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| 78. | <i>Cultural Representation of Women in Hispanic Film/Representación Cultural de Mujeres en el Cine Hispano.</i> <b>Emily Atkinson '22, Sloan Burch '22, Emily Chandler '22, &amp; Kaela Muñoz '22.</b> (Sponsor: Professor Dolores Juan-Moreno) |
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### Women and Gender Studies

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| 79. | <i>Adoptive Parents and Teachers Reflect on Adoptees' School Challenges: A Thematic Analysis.</i> <b>Sarah Race '22 &amp; Shay Sotelo '22.</b> (Sponsor: Professor Abbie Goldberg)<br><i>Also, Virtual</i> |
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**WE WOULD LIKE TO HEAR FROM YOU!**

Please share your experience with us by completing a brief survey at

<https://tinyurl.com/kb4zh3d6>.

All responses shall remain anonymous.

Thank you!



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# ClarkFEST Spring 2022 Program

ClarkFEST Spring 2022 is generously sponsored by Dean of College, with additional funding provided by Clark University's Academic Innovation Fund.

ClarkFEST Spring 2022 Coordinator: .....Kerri Stearns, Department of Psychology

ClarkFEST Spring 2022 Faculty Mentor: .....James V. Córdova, Department of Psychology

We would like to thank all of the student presenters and their faculty and staff mentors for their participation in ClarkFEST Spring 2022! In addition, we would like to extend a special thank you to the following Clark University departments and personnel for contributing their efforts and expertise.

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Katrina Banks-Binici  
David Fithian

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Tracy Leonard  
Sebastián Royo

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