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**APRIL 15TH-18TH, 2021**

# ARTS AND HUMANITIES

UVM VIRTUAL STUDENT RESEARCH CONFERENCE

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## ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Davis, Ethan</b>	Complex Systems, Graduate College	Quantifying proverb dynamics in books, news articles, and tweets	Chris Danforth
<b>Haney, Eliza C.</b>	Elementary Education, CESS	The Special Olympics: Influences on policy and social supports for children within the United States	Katharine Shepherd
<b>Schinella, Kat</b>	Art History, Global Studies, CAS	Orientalism in Auction Houses: A Provenance Exploration of Alexandre-Gabriel Decamps' 1848 Farm Yard at the Fleming Museum of Art	Heather Read
<b>Steele Bailey, Isabel</b>	European Studies, CAS, HCOL	Looking Eastward: Moscow's Influence on Alfred Barr's Modernism, 1927-1935	Ian Grimmer

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Moran, Emily E.</b>	Communication Sciences and Disorders, CNHS, HCOL	Children's Book: The Adventure of Cordelia and Dibbles	Shelley Velleman

<b>Wilson, Christopher J.</b>	Biology, CAS	A Comparative Analysis of Humpback Whale Soundscape Ecology; Before and During COVID-19 Marine Restrictions	Laura May-Collado
<b>Winter, Skye Seyfer</b>	Anthropology, CAS	"Where did you get your information?": Phenomenological Research of the Illness Experiences of People with "Pure" O Obsessive-Compulsive Disorder	Deborah Blom, Jeanne Shea

# BIOLOGICAL SCIENCES

PLANTS, ANIMALS, GENETICS, EVOLUTION, ECOLOGY

UVM VIRTUAL STUDENT RESEARCH CONFERENCE

APRIL 15TH-18TH, 2021

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## ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Bardsley, Katherine</b>	Plant Biology, CALS	Inferring the demographic history of red spruce ( <i>Picea rubens</i> ) from chloroplast genome sequences	Stephen Keller
<b>Dumas, Caroline</b>	Biology, CAS	Characterization of Sema6A reverse signaling in zebrafish eye development	Bryan Ballif, Alicia Ebert
<b>SanAngelo, Madeline Frances</b>	Environmental Sciences, Rubenstein	The Relationships between Bacteria Concentration in Connecticut Rivers and Socioeconomic Parameters	Kris Stepenuck, Jen Pontius Jillian Sarazen
<b>Heller, Briana J.</b>	Biology, CAS	Does boat activity influence the acoustic structure of humpback whale songs?	Laura May-Collado
<b>Petak, Csenge</b>	Biology, CAS	Local adaptation to pH variability in purple sea urchins	Melissa Pespeni

<b>Snider, Miriam Allison</b>	Animal, Nutrition and Food Sciences, CALS	Impact of forage mixtures on rumen energetics and performance as assessed by continuous culture	Sabrina Greenwood
<b>Stergas, Helaina R.</b>	Biology, Graduate College	Crk adaptor proteins are necessary for the development of the zebrafish retina	Alicia Ebert
<b>Vought, Olivia K.</b>	Environmental Sciences, Rubenstein	Linkages between mineral soil organic carbon and litter decomposition	Carol Adair
<b>Zhao, Zirui and Matthew Kinahan</b>	Biology, CAS	Project of Mixed Species Biofilms of Ralstonia and Chryseobacterium	Matthew Wargo

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Berkelhammer, Shira A.</b>	Wildlife and Fisheries Biology, Rubenstein	From bycatch to center stage: using incidental catch of forage fish in bottom trawls to inform survey design	Jason Stockwell, J. Ellen Marsden
<b>Bhattarai, Suraj</b>	Animal Science, CALS	Bisulfite Pyrosequencing Reveals Conserved DNA Methylation in 5' AMPK Gene Family Among Beef Cattle and Bison	Stephanie McKay
<b>Camber, Ben</b>	Biology, Graduate College	Impacts of Covid-19 Regulations on the Soundscape of Marine Communities within Coiba National Park	Sara Helms-Cahan
<b>Chapman, Quinn and Hannah Larose, Dagny Keltner</b>	Biology, CAS	Humpback Whale's Use of Breeding Ground near Coiba Contreras off the Pacific Coast of Panama	Laura May-Collado
<b>Crisp, Matthew</b>	Plant Biology, CALS	Developing an Automated Aeroponic Research Tool (AART)	Philip M. Lintilhac
<b>Dean, Ethan</b>	Biology, CALS	Epigenetic evolution in Leptinotarsa decemlineata and histone modifiers effects on resistance	Yolanda Chen

<b>DeFoe, Alexandra E.</b>	Biology, CAS	Understanding the Role of Flowers in Bee Virus Transmission	Samantha Alger
<b>Degelsmith, Maddy J.</b>	Biology, CAS	Resistance to Ranavirus Disease in Tadpoles	Lori Stevens
<b>Dillon, Kayley</b>	Wildlife and Fisheries Biology, Rubenstein, HCOL	Modeling Olive-sided Flycatcher Occupancy in the Northeastern United States	Allan Strong, James Murdoch
<b>Gonzales, Kahlia P. and Natalia Swack</b>	Zoology, CAS	Female Productivity and Calf Survivorship of Bottlenose Dolphins ( <i>Tursiops truncatus</i> ) in Bocas del Toro, Panama	Laura May-Collado
<b>Guillemin, Jacqueline A.</b>	Biology, Graduate College	Dcbld2 is Essential in Zebrafish Retinal Development	Alicia Ebert
<b>Kaplan, Isabel</b>	Biology, CAS	The effects of developmental acclimation on gene expression during temperature shock in <i>Drosophila</i>	Sara Helms Cahan
<b>Koslowsky, Samuel Alex</b>	Psychological Science, CALS	Acoustic Structure of False Killer Whale ( <i>Pseudorca cassidens</i> ) Sounds off The Coast of El Salvador	Laura May-Collado
<b>Maloney, Angela L.</b>	Biology, CAS	Effects of Pesticide Use and Diet on Bee Gut Microbiome	Sara Helms Cahan
<b>Mulakala, Bharath</b>	Animal, Nutrition and Food Sciences, CALS	The rumen metaproteome of dairy cows is affected by dietary fiber and starch content	Sabrina Greenwood
<b>Murphy, Meghan</b>	Wildlife and Fisheries Biology, Rubenstein	Ambient noise levels as an indicator of marine community health: a comparison of protected vs non-protected areas	Laura May-Collado
<b>O'Donnell, Riona Kathleen</b>	Neuroscience, CAS	Addressing the DNA Damage Response to Irradiation and PARP1/PARG Inhibitors in Glioblastoma	Delphine Quenet
<b>Oppenheimer, Franny and Megan O'Connor, Hayley Norton</b>	Biology, CAS	Do lunar cycles influence male humpback whale singing behavior?	Laura May-Collado

<b>Santoro, Joanna</b>	Biology, CAS	Linking mycorrhizal colonization to pollinator behavior and reproductive success in highbush blueberry	Alison Brody
<b>Saveson, Gretchen</b>	Biology, CAS	Linking mycorrhizal colonization to floral rewards and reproductive success in highbush blueberry	Alison Brody
<b>Sofio, Michael G.</b>	Biology, CAS	Hybrid Worker Size Variation Between Interbreeding Desert Seed Harvester Ant Lineages	Sara Helms Cahan
<b>Sorrentino, Jacob A.</b>	Natural Resources, Rubenstein	The effects of the spotted lanternfly on ant and terrestrial slug population in eastern Pennsylvania	Sara Helms Cahan
<b>Stoloff, Andrew Karl</b>	Biology, CAS	Later developmental stages of <i>Drosophila melanogaster</i> acclimate and function better in response to thermal stress than early developmental stages	Sara Helms Cahan
<b>Stuart, Ryan</b>	Biology, CAS	Impacts of Cultivar and Mycorrhizal Colonization on <i>Acrobasis vaccinii</i> Infestation and Herbivory Damage in <i>Vaccinium corymbosum</i>	Alison Brody
<b>Tomaseski, Sydney</b>	Animal Science, CALS	Geographical Variation of Pantropical Spotted Dolphins Whistle Acoustic Structure	Laura May-Collado
<b>Vichi, Cecilia</b>	Environmental Sciences, CAS	Are Marine Protected Areas successfully preserving community level marine biodiversity?	Laura May-Collado
<b>Williams, Laney</b>	Biology, CAS	Ericoid Mycorrhizal Fungi Aid in Growth and Reproduction Under Low-Nutrient Conditions	Alison Brody
<b>Wright, Jessica</b>	Biology, CAS	Epigenetic Rescue of Developmental Timing and Pupation Height under Dietary Stress in <i>Drosophila</i>	Sara Helms Cahan
<b>Zigic, Savannah</b>	Environmental Sciences, Rubenstein	Investigating the effects of multiple predators and hypolimnetic hypoxia on zooplankton migration behavior	Jason Stockwell



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## **BIOLOGICAL SCIENCES**

**MICROBIOLOGY, CELL AND MOLECULAR, BIOCHEMISTRY**

**UVM VIRTUAL STUDENT RESEARCH CONFERENCE**

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### **ORAL AND PAPER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Davidson, Cole Dakota</b>	Cellular, Molecular and Biomedical Sciences, LCOM	Targeting Glycogen Metabolism as a Novel Therapeutic Approach in Anaplastic Thyroid Cancer	Frances Carr
<b>Heininger, Meara</b>	Biochemistry, CALS, HCOL	Factors that Influence Subcellular Mitochondrial Positioning	Brian Cunniff
<b>Sabikunnahar, Bristy</b>	Cellular, Molecular and Biomedical Sciences, CNHS	A novel lncRNA U90926 increases susceptibility to endotoxic shock	Dimitry N. Kremontsov

### **POSTER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Bourdeau, Jenna M.</b>	Neuroscience, CAS	Discovering novel protein-protein interactions of Crk/CrkI adaptor proteins in retinal neurodevelopment	Alicia Ebert

<b>Caldwell, Sydney K.</b>	Molecular Genetics, CAS	Determination of the Protein Coding Potential of LncRNA U90926 and its Effect on Adipogenesis	Dimitry N. Kremontsov
<b>Courtney, Elise A.</b>	Microbiology and Molecular Genetics, CALS	Characterizing the Role of EWI-2 Palmitoylation During HIV-1 Infection	Markus Thali
<b>Cullen, Erin R.</b>	Neuroscience, Graduate College	Genetic rescue of Pten-KO induced hypoexcitability and signaling changes in cortical neurons	Matthew Weston
<b>Czora, Maddy</b>	Biochemistry, CAS	Effects of PARP1 and PARG inhibition on the Unfolded Protein Response in Glioblastoma	Delphine Quenet
<b>D'Amico, Alexander</b>	Biology, CAS	CRISPR-Cas9 Mediated Deletion of Glutaredoxin in Lung Epithelial-like Cancer Cells	Yvonne Janssen-Heininger, Joseph Druso
<b>Drogalis Beckham, Lea K.</b>	Cellular, Molecular and Biomedical Sciences, LCOM	Disorderly Conduct: Investigating Unstructured Sequence Inserts of Human DNA Polymerase Theta	Sylvie Doublé
<b>Flores-Bringas, Patricio</b>	Microbiology, CALS	Characterization of Vitamin D Signaling in INS-1 Pancreatic $\beta$ -cells	Dhananjay (Jay) Gupta
<b>Hammer, Matthew J.</b>	Biology, CAS	Analysis of Small RNAs in Streptococcus mutans Oxidative Stress Response	Julie Dragon
<b>Lamkin, Erica N. and Andrew Crompton</b>	Molecular Genetics, Microbiology and Molecular Genetics, CALS, LCOM	The role of REV1 in cancer resistance to radiation therapy	Nimrat Chatterjee
<b>Maserejian, Ariana E.</b>	Neuroscience, CAS	Regulation of Cortex Glial Proliferation & Infiltration	Jaeda Coutinho-Budd
<b>Paige, Zoë A.</b>	Neuroscience, CAS	Identifying the Impact of Glial Engulfment on A $\beta$ 42-induced Nervous System Dysfunction	Jaeda Coutinho-Budd
<b>Patel, Neel V.</b>	Biology, CAS	Investigation of Potential Differential Mitochondrial Membrane Remodeling between Temperate and Tropical Drosophila melanogaster Populations	Brent Lockwood, Emily Elizabeth Mikucki, Sumaetee Tangwancharoen

<b>Richman, Alyssa</b>	Cellular, Molecular and Biomedical Sciences, CNHS	Epigenetic analysis of Ikaros tumor suppressor function in acute lymphoblastic leukemia	Seth Fietze
<b>Ross, Grace</b>	Biology, CAS	Mechanisms of Glial Infiltration	Jaeda Coutinho-Budd
<b>Shah, Mehul H.</b>	Molecular Genetics, CALS, HCOL	Functional Comparison of Toxoplasma and Chicken Skeletal Muscle Actins in Motility Assays Using Toxoplasma Myosin	Gary Ward, Anne Kelsen
<b>Stassen, Emily</b>	Cellular, Molecular and Biomedical Sciences, CAS	Hydroxymethylation across the cattle brain	Stephanie McKay
<b>Sturm, Ian R.</b>	Microbiology and Molecular Genetics, CALS	The Biological Role of Sulfur and Selenium in Bacterial Translation	Robert Hondal
<b>Vanson, Scott H.</b>	Cellular, Molecular and Biomedical Sciences, Graduate College, LCOM	Structural Investigation of Polymerase Theta Helicase-like Domain	Sylvie Doublé
<b>Varnum, Stella</b>	Biochemistry, CAS	Investigating the Functional Potential of lncRNA and Protein Encoded by U90926, a Negative Regulator of Adipogenesis	Dimitry N. Kremontsov
<b>Wakefield, Jane I.</b>	Biology, CAS	Inorganic Phosphate Enhances Systolic and Diastolic Function in Excitable Papillary Muscle and Accelerates Myofilament Relaxation in Response to Lengthening	Bradley M. Palmer, Stephen P. Bell
<b>Wilson, Emily R.</b>	Molecular Genetics, CALS	Effects of KDM1A Inhibition on Anaplastic Thyroid Cancer Cells	Frances Carr

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**ENGINEERING, MATHEMATICAL,  
AND PHYSICAL SCIENCES**

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**ORAL AND PAPER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Allemeier, David</b>	Materials Science, CAS	Photonic Band Engineering in Metallic Microcavity OLEDs	Matthew White
<b>Blackwell, Calvin Geoffrey</b>	Environmental Engineering, CEMS	Remote Sensing of Suspended Sediment in the Lake Champlain Basin	Scott Hamshaw, Luis Garcia
<b>Dahal, Ekraj</b>	Materials Science, Graduate College	Effect of the Dipole Position on the Emission Characteristics in Microcavity Organic Light Emitting Diodes	Matthew White
<b>Donahue, Nicole and Cole Garabed, Curtis Ianni, James Doherty, Tori Weissman</b>	Biomedical Engineering, CEMS	UVM Senior Experience in Engineering Design (SEED): Instrumented Knee Brace	Ryan McGinnis
<b>Howe, Alex</b>	Physics, CAS, HCOL	Constructing a Rainbow OLED Using Fabry-Pérot Microcavities	Matthew White

<b>Karki, Alina</b>	Materials Science, CEMS	Measurement of Ultrasonic parameters of cancellous bone as a function of porosity and frequency using transverse transmission Ultrasonic spectroscopy Technique	Junru Wu
<b>Langle-Chimal, Ollin D.</b>	Complex Systems, CEMS	Complex Systems and Data Science for Humanitarian Response	Nicholas Cheney
<b>Lovato, Juniper</b>	Complex Systems, CEMS	Dark Data: making dark data FAIR	Christopher M. Danforth
<b>Nelson, Sarah</b>	Mechanical Engineering, CEMS	Seated Postural Changes with Foot Position at a Tall Workstation	Niccolo Fiorentino
<b>Rice, Robin A.</b>	Materials Science, CEMS	Nonlinear Impedance Spectroscopy to characterize Hole Transport and Recombination Dynamics in Organic Semiconductor Devices	Matthew White
<b>Van Oort, Colin Michael</b>	Complex Systems, Graduate College	Learning Adaptive Trading Strategies for Market Models	Safwan Wshah
<b>Worley, Lindsay</b>	Civil Engineering, CEMS	Identification and Optimization of High Priority River Reach Locations for Floodplain Reconnection on a Watershed Scale	Kristen Underwood

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Betz, Carl W.</b>	Environmental Sciences, Rubenstein	Nitrogen Removal Performance of Bioretention Cells Modified for Phosphorus Sorption	Eric Roy, Stephanie Hurley
<b>Boudreau, Mariah</b>	Mathematical Sciences, CEMS	Modeling epidemic interventions with probability generating functions	Laurent Hébert-Dufresne
<b>Boynton, Jack</b>	Biomedical Engineering, Computer Science, CEMS	Early Detection of True or False Cardiac Alarms in the ICU	Byung Lee

<b>Dannenberg, Steven G.</b>	Chemistry, CAS	Photocatalysis with Copper	Rory Waterman
<b>Flueckiger, Austin C.</b>	Chemistry, Graduate College	The effect of deliquescence and efflorescence on particle phase for an ammonium and sulfate salt series	Giuseppe Petrucci
<b>Javier-Jimenez, Diego R.</b>	Chemistry, Graduate College	Facile Route to Non-Oxide Ceramics	Rory Waterman
<b>Minot, Joshua R.</b>	Complex Systems, CEMS	Interpretable bias mitigation for textual data: Reducing gender bias in patient notes while maintaining classification performance	Christopher M. Danforth, Nicholas Cheney, Peter Sheridan Dodds
<b>Myhaver, Vanessa</b>	Complex Systems, CEMS	Interpretable bias mitigation for textual data: Reducing gender bias in patient notes while maintaining classification performance	Christopher M. Danforth
<b>Nguyen, Linh</b>	Civil Engineering, CEMS	A New Tool for Analyzing Event Sediment Dynamics Using High-Frequency Turbidity Sensor Data	Scott D. Hamshaw, Donna M. Rizzo
<b>O'Driscoll, Steven</b>	Biomedical Engineering, CEMS	Validating Mechanical Biaxial Stretch and Developing Image Calibration Methodology for Pulmonary Cell Models	Daniel Weiss
<b>Reuter, Matthew B.</b>	Chemistry, Graduate College	Main Group Element-Element Bond Formation via Metal-Amido Complexes	Rory Waterman
<b>Schireman, Ray</b>	Materials Science, CAS	Utilizing Machine Learning for the Calculation of Vibrational Frequencies of Molecular Crystals	Michael Ruggiero
<b>Tahir, Irfan</b>	Mechanical Engineering, CEMS	The Impact of Covalently Conjugated Alginate-Heparin Methacrylate Hydrogels on Multi-Axial Strength and HUVEC Tubular Formation	Rachael Oldinski-Floreani

**Verhaeg, Emily A.**

Chemistry, Graduate College

Identification, Assignment, and  
Characterization of Low-Frequency  
Dynamics in Microplastic Pollutants

Michael Ruggiero

## FOOD AND ENVIRONMENT STUDIES

### UVM VIRTUAL STUDENT RESEARCH CONFERENCE

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### ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Bruzas, Abby</b>	Environmental Studies, Rubenstein	Anaerobic Digestion at UVM	Amy Seidl
<b>Deery, McKinley</b>	Environmental Studies, CALS	Estimating the Effects of Village Greens on Localized Air Quality Index and Outdoor Air Temperature in Vermont	Stephanie Hurley
<b>Hsu Obrock, Ani</b>	Accelerated RN-BS-MS, CALS	Understanding Primary School Feeding Practices in Rural Kenya	Farryl Bertmann
<b>Kelleher, Leah</b>	Environmental Studies, Rubenstein	Attune: Audio Explorations of Environmental Stories	Richard Watts
<b>Lopez, Olivia</b>	Forestry, Rubenstein	Biomass Energy in Vermont	Luben Dimov
<b>Tweedy, Angela</b>	Community Development and Applied Economics, CALS	Green Taxes in the Green Mountain State: Consumer response to plastic bag legislation in Vermont	Qingbin Wang



## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Ivanick, Lia</b>	Environmental Sciences, Rubenstein	ZooST: Zooplankton over Space and Time	Jason Stockwell, Ariana Chiapella
<b>Mulakala, Bharath</b>	Animal, Nutrition and Food Sciences, CALs	The rumen metaproteome of dairy cows is affected by dietary fiber and starch content	Sabrina Greenwood
<b>Rose, Nick and Katherine Peck, Gabiella Curcio, Hannah Lacasse, Jane Kolodinsky</b>	Food Systems, CALs	The USDA's Bioengineering Disclosure Standard does not match public opinion on how best to label genetically modified foods: results of a content analysis of public comments in the Federal Register	Jane Kolodinsky
<b>Triantafillou, Shayla P.</b>	Geography, CAS	Exploring the role of geomorphic variability on the function of Vermont's floodplains: an analysis of sedimentation	Beverley Wemple, Rebecca Diehl

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**HEALTH SCIENCES  
LABORATORY AND CLINICAL**

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**ORAL AND PAPER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Barnes, Andrew and Charlotte Key, Yukiko McQueeney, Faith Richard, Jillian Varin</b>	Physical Therapy, CNHS	Behavioral and Neurophysiological Deficits in Adults with Post-Concussion Syndrome: A Scoping Review	Sambit Mohapatra
<b>Bean, Emily and Avital Steinberg, Jared Boudreau, Zebulon Shalginewicz</b>	Physical Therapy, CNHS	Observation of patient satisfaction and clinical outcomes in treatment of musculoskeletal conditions: A systematic literature review	Elizabeth Sargent
<b>Bellhorn, Nicole M.</b>	Health Sciences, CNHS	Cooking Intervention and Perceived Stress Levels Among College Students	Lizzy Pope, Susan Kasser
<b>Brower, Paige M.</b>	Nursing, CNHS	The Parental Experience of Having a Child Diagnosed with Type 1 Diabetes	Sarah Narkewicz, Susan Kasser
<b>Condon, Erin and Elizabeth Macksey, Jeffrey Hennessy, Madalyn Pfeifer</b>	Physical Therapy, CNHS	PTOA Risk Following ACL, Meniscal, or ACL and Meniscal Injury	Mathew Failla

<b>Golden, Alexa J.</b>	Health Sciences, LCOM	Assessment Strategy for Implementation of Evidence-Based Protocol for Antibiotics in Appendicitis	Alia Aunchman, Gary An
<b>Gramling, Cailin</b>	Philosophy, CAS	Epidemiology of Connectional Silence in Palliative Care Serious Illness Conversations	Robert Gramling, Donna Rizzo
<b>Griswold, Astrida and Sophie Zimmerman, Carlee Casey, Patrick McGrath</b>	Physical Therapy, CNHS	Efficacy of Scapular Focused Treatment for Shoulder Pain	Mathew Failla
<b>Gutekunst, Kathryne and Sadie Thompson, Andrew Sawtell, Michael McCormack, Marilyn Ong</b>	Accelerated RN-BS-MS, CALS	The Evolution of Outpatient Chronic Pain Management Programs: A Mapping Review	Karen Westervelt
<b>Hickey, Michael D. and Natasha Anand, John Redito, Daniel Barry</b>	Physical Therapy, CNHS	Content validity of chronic pain patient reported outcome measures - "attributes" that matter most to patients with persistent pain	Reuben Escorpizo
<b>Mekkelsen, Ashley M.</b>	Neuroscience, CAS	Neurophysiological and Behavioral Correlates of Post-Concussion Syndrome: A scoping review and validation of methods	Sambit Mohapatra
<b>Murphy, Shannon K.</b>	Health Sciences, CNHS	Guiding Expansion and Diversification in the Midwifery Workforce	Deborah Hinchey
<b>Pearse, Skyler O.</b>	Neuroscience, CAS	The Effects of Maternal Antidepressant Usage on a Child's Psychological Health	Julie Dumas
<b>Treshinsky, Carley and Leigh Holahan, Matt Sanders</b>	Physical Therapy, CNHS	Crushed by Debt: A systematic literature review on the impact of graduate debt on early career choices for new physical therapists in comparison to other clinical doctorates	Paula Smith

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Blais, Lorrie L.</b>	Medical Laboratory Science, CNHS	Probiotic and commensal gut microbial therapies in multiple sclerosis and its animal models: A systematic literature review	Dimitry N. Kremmentsov, Paula B. Deming, Eyal Amiel,
<b>Buerger, Caleb</b>	Biochemistry, CAS	Cross Neutralizing Dengue Antibodies	Sean Diehl, Ben McElvany
<b>Burch, Maja</b>	Neuroscience, CAS	Impaired Glucose Tolerance as a Risk Factor for Cognitive Dysfunction	Julie Dumas
<b>Casey, Julia and Minija Edgar, Harper Favreau, Nima Sherpa, Cara Tillou, Justine Dee, Rachael Zeno</b>	Physical Therapy, CNHS	Accuracy and Patient Satisfaction with using a Language Interpreter in the Healthcare Setting: A Systematic Literature Review	Justine Dee
<b>Coughlin, Eric J.</b>	Microbiology and Molecular Genetics, CALS	Functional analysis of ATAD2 and ATAD2B	Seth Frieze
<b>Dillon-Martin, Maeve</b>	Biology, CAS, HCOL	Studying Evolutionary Patterns in Cancer Risk Genes with Computational Tools to Create Sequence Alignments	Marc Greenblatt
<b>du Preez, Liam</b>	Health Sciences, LCOM	The Utility of Gadolinium Contrast Agents in Older Multiple Sclerosis Patients not on Disease Modifying Therapy	Adam Ulano
<b>Goldman, Abby</b>	Health Sciences, CNHS	Pediatric Primary Care Provider Survey: Autism Spectrum Disorder (ASD) and Mental Health Disorders	Laura Lewis
<b>Koundakjian, Dylan</b>	Health Sciences, LCOM	Effects of a new hospital building on patient outcomes	Allen Repp, Bradley Tompkins,
<b>Nolan, Margo</b>	Biology, CAS	The Effect of Caloric Balance on Disease Progression and Survival in ALS Patients	Rup Tandan
<b>Schlepphorst, Katie</b>	Nutrition and Food Sciences, CALS	Knowledge of protein content and bioavailability in dairy and plant-based alternatives among a national sample	Emily Belarmino

<b>Smoger, Samantha F.</b>	Biology, CAS	Qualities of communication in palliative care conversations in dialysis	Katharine L. Cheung, Robert Gramling
<b>Tomanelli, Marianna</b>	Medical Laboratory Science, CNHS	Assessment of Barriers to Interoperability in Medical Image Exchange: A Mixed Methods Approach	Paula Deming, Eyal Amiel
<b>Torfs-Leibman, Camille Louise</b>	Biology, CAS	Large Scale Data Integration of Biomedical Literature	David Krag
<b>Van Horn, Lucas</b>	Human Functioning and Rehabilitation Science, CNHS	Persistent Postural Perceptual Dizziness (PPPD): Diagnostics and Mechanisms of Action	Sambit Mohapatra, George Kurien,
<b>VanNostrand, Michael</b>	Human Functioning and Rehabilitation Science, CNHS	Mobility and Multitasking in People with Multiple Sclerosis	Susan Kasser
<b>Yousef, Hakeem M.</b>	Health and Society, LCOM	Outcomes of Cutaneous Squamous Cell Carcinoma of the Lip as a Function of Lip Location	Melanie Bui

# SOCIAL SCIENCES

**APRIL 15TH-18TH, 2021**

VoiceThread Link:

<https://voicethread.com/myvoice/browse/threadbox/5192>

## UVM VIRTUAL STUDENT RESEARCH CONFERENCE

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### ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Galantowicz, Sorrel</b>	Global Studies, Geography, CAS	K-Pop Twitter as a Site of Transnational Social Media Activism	Pablo Bose
<b>Knappertz, Sophia</b>	Global Studies, Anthropology, CAS	"One country alone cannot solve these problems": German Leadership's Role in Europe's Decade of Crisis	Pablo Bose
<b>Moran, Emily</b>	Communication Sciences and Disorders, CNHS, HCOL	The Influence of Social Story Interventions on Children with and without Autism Spectrum Disorder (ASD) Based on Maternal Education	Patricia Prelock
<b>Nikolaides, Kira Marie</b>	Political Science, CAS	The Legacy of Batson v. Kentucky: Race, Jury Selection, and Justice	Lisa M. Holmes
<b>Ruleman, Ashlynn Maree</b>	Anthropology, CAS	Clouded Cause: Inclusive Research into the Impacts of Sociocultural Environment and Stress on College Students' Smoking Patterns	Deborah Blom, Jeanne Shea
<b>Xu, Grace</b>	Psychological Science, CAS	Correlation between visual perspective taking and cognitive theory of mind in neurotypical children and children with ASD	Patricia Prelock

<b>Yanez, Marissa</b>	Natural Resources, Rubenstein	Analyzing Affordable Housing in Vermont: Insights from a Non-Profit Housing Provider's Portfolio using a GIS Assessment	Kelly Hamshaw, Jonathan Bond
<b>Zimmerman, Julia and Philip Nguyen</b>	Complex Systems, CEMS	Character Space: quantifying how personality traits support story-telling	Christopher M. Danforth

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Donepudi, Sindhu</b>	Neuroscience, CAS	Theory of Mind Differences Between Children with and without Autism Spectrum Disorder Following Social Story Intervention	Patricia Prelock
<b>Gauthier, Gwyn</b>	Communication Sciences and Disorders, CNHS	Adverse Childhood Experiences and Theory of Mind: A Literature Review	Tiffany L. Hutchins
<b>Gothard, Kelly C.</b>	Complex Systems, CEMS	Incel narratives: Deciphering and tracking the incel lexicon	Peter Dodds
<b>Kafka, Julian</b>	Psychological Science, CAS	Factors that Influence Whether Choices are Consistent with Loss Aversion	Eric A. Thrailkill
<b>Lee, Maggie S.</b>	Environmental Studies, Rubenstein	Coyotes, Four-Wheeling, and Citizen Social Science: Case Studies in Student-Directed Learning	Rachelle Gould
<b>Luke-Currier, Addiena M.</b>	Anthropology, CAS	An Examination of Heart-Disease Related Prevention Measures for the Elderly in Vermont State Prisons, Focusing on Diet	Jeanne Shea
<b>Minadeo, Marisa A.</b>	Health and Society, CAS	A Content Analysis of Diet Culture on TikTok	Lizzy Pope
<b>Stupinski, Anne Marie</b>	Complex Systems, Graduate College	Measuring Mental Health Stigma on Twitter	Christopher M. Danforth, Peter Sheridan Dodds
<b>Williams, Kate Y.</b>	Nutrition and Food Sciences, CALS	Investigation of Eating Practices in a Sample of Child Care Centers in Northwestern Vermont	Farryl Bertmann
<b>Wynkoop Ashlock, Lauren</b>	Biology, CAS	Graduate Student Wellness	Melissa Pespeni

# VERMONT STUDIES

APRIL 15TH-18TH, 2021

VoiceThread Link:

<https://voicethread.com/myvoice/browse/threadbox/5329>

## UVM VIRTUAL STUDENT RESEARCH CONFERENCE

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### ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Naccarato, Alex J.</b>	Wildlife and Fisheries Biology, Rubenstein, HCOL	Seasonal and Spawning Movements of Walleye ( <i>Sander vitreus</i> ) in a Fragmented Lake	J. Ellen Marsden, Brittany Mosher
<b>Omohundro, William J.</b>	Political Science, CAS, HCOL	Reduction and Prevention of Racial Disparities in Youth Justice	Pablo Bose
<b>Schafer, Chloe A.</b>	Anthropology, Dance, CAS	Movement-Improvisation Across the Lifecycle	Deborah Blom
<b>Sizen, Mark Louis</b>	Self-Designed, CALS	Simon Summer Research: The effects of grooming sand stalls in milking cattle, pilot study in Georgia, Vermont	Travis Reynolds



## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Doyle, Ryan</b>	Biology, CALS	Developing Methods to Assess Vermont Crop Rarity	Eric Bishop von Wettberg
<b>Ducharme, Alden R. B. and Gaiser, Danielle E., Lennon, Claire E.</b>	Middle Level Education, CESS	How are Vermont Mathematics Teachers Structuring Learning Scales	Carmen Petrick Smith
<b>Kaufman, Hannah R.</b>	Public Health, Graduate College, LCOM	Food Insecurity In Vermont Households, Analysis of association with Tobacco Use, Alcohol Consumption and Physical Inactivity	Hendrika Maltby

**APRIL 15TH-18TH, 2021**

**SPECIAL SESSION  
COVID-19**

**VoiceThread Link:**  
<https://voicethread.com/myvoice/browse/threadbox/5330>

**UVM VIRTUAL STUDENT RESEARCH CONFERENCE**

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**ORAL AND PAPER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Beausoleil, Kylie S.</b>	Nursing, CNHS	The Benefits of Technology for Older Adults During the COVID-19 Pandemic	Jason T. Garbarino, Laura C. Lewis
<b>Crosby, Alexandra</b>	Global Studies, CAS	France's Asylum Seeker and Refugee Populations in the Age of the COVID-19 Global Pandemic	Pablo Bose
<b>Czochanski, Valentina M.</b>	Global Studies, Sociology, CAS	Prison, Punishment, and Premature Death: Group-differentiated Health Impacts of Incarceration during the COVID-19 Pandemic	Pablo Bose
<b>Gagne, Emma K.</b>	Accelerated RN-BS-MS, CAS	Panama bottlenose dolphin ( <i>Tursiops truncatus</i> ) whistles indicate less stress during COVID-19 pandemic	Laura May-Collado
<b>Isbell, Carina V.</b>	Community Development and Applied Economics, CALS, Graduate College	COVID-19 & Seed System Resilience: The Effects of the Pandemic on Seed Sourcing and Access in Vermont	Daniel Tobin

<b>Kelliher, Liam and Julia Murray, Liam Keefe</b>	Biology, CAS	Dolphin Presence Increased During COVID19 Lockdown in Dolphin Bay, Panama	Laura May-Collado
<b>Linnell, Kelsey</b>	Mathematical Sciences, CEMS	Pandemic Park Visitation	Chris Danforth
<b>Pasqualoni, Samuel J.</b>	Neuroscience, CAS	The Effects of COVID-19 on Substance Use Behaviors at UVM	William Copeland
<b>Roush, Megan</b>	Community Development and Applied Economics, Graduate College	Social Capital and Resilience Planning: Lessons Learned from Hurricane Irene and the COVID-19 Pandemic in Vermont	Travis Reynolds
<b>Smith, Courtney R. and Naomi M. Cunningham</b>	Community Development and Applied Economics, CALS	Painting a Picture: COVID's Impact on Vermont's Food System Resilience	David Conner

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Dunphy, Peyton Shea and Juliana Esther Bouchard, Lizzie Casey Hynes</b>	Wildlife and Fisheries Biology, Rubenstein	Ambient noise levels as an indicator of marine community health: a comparison of protected vs non-protected Areas	Laura May-Collado
<b>Durant, Grace E.</b>	Environmental Sciences, CAS	How does Covid-19 lockdown impact boating and Humpback whale singing activity?	Laura May-Collado
<b>Eliot, Darcy</b>	Global Studies, CAS	COVID-19: How a Pandemic Exposed the Vulnerability of International Students in the U.S.	Pablo Bose
<b>Hodson, Anna M.</b>	Biology, CAS	Impacts of Covid-19 Regulations on the Soundscape of Marine Communities within Coiba National Park	Laura May-Collado
<b>Kilmer, Tessa M.</b>	Wildlife and Fisheries Biology, Rubenstein, HCOL	How do COVID-19 lockdowns impact toadfish mating call acoustic structure in Bocas del Toro, Panama?	Laura May-Collado
<b>Levine, Jill</b>	Biology, CAS	COVID-19's Effects on the Fishing Industry	Easton White
<b>Miller-Bottoms, Sawyer</b>	Biology, CAS	Ambient noise levels of a protected marine community in Costa Rica before and during Covid-19.	Laura May-Collado

<b>Pfeiffer, Rose</b>	Biology, CAS	State-Level Variation in COVID-19 Policy Impacts on the US Fisheries Sector	Easton White
<b>Remes, Ely P. and Chloe C. Pay, Claudia A. Pollock</b>	Biology, CALS	Covid-19 lockdown impacts on a marine protected area	Laura May-Collado
<b>Thompson, Grace E. and Kaitlyn A. Zoller, Katie E. Roberts, Solomon C. Snuggerud, Kristin Rasmussen</b>	Biology, CAS	Soundscapes of a marine community before and during Covid-19 lockdowns	Laura May-Collado
<b>Tyer, Shenna</b>	Accelerated RN-BS-MS, CALS	Emotional Eating During COVID-19	Farryl Bertmann

**SPECIAL SESSION  
WOMEN, GENDER, AND IDENTITY**

**UVM VIRTUAL STUDENT RESEARCH CONFERENCE**

**APRIL 15TH-18TH, 2021**

**VoiceThread Link:**

<https://voicethread.com/myvoice/browse/threadbox/5331>

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**ORAL AND PAPER PRESENTATIONS**

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Acierno, Nikki and Micaela Capozzo, Emily Higgins, Samantha Hornsby, Carolyn Snell</b>	Physical Therapy, CNHS	Physical therapist-led telehealth on functional and psychosocial outcomes for women with stage I-III breast cancer: A systematic review	Rebecca Ouellette-Morton
<b>Barritt, Julian A.</b>	Anthropology, CAS	Sexual Orientation, Gender, & Self-styling: An Exploration of Visual Identity-Signaling	Paul Deslandes
<b>Blasi, Aiden</b>	English, CAS	La Balena: Women's Asylums in Fascist Italy	Stephen Cramer
<b>Chevalier, Kyra</b>	Public Communication, CALS	Rated M for Maternal: An Allegorical Exploration of Domestic Horror and the Female Body in P.T.	James McGuffey
<b>Hull, Sasha H.</b>	Latin American and Caribbean Studies, Spanish, CAS	Understanding a Culture of Violence: Gender Based Violence in Contemporary El Salvador	Caroline Beer
<b>Saunders, Michelle B.</b>	Community Development and Applied Economics, CALS	Crop Diversity, Land Tenure Security, and Women's Empowerment in Rural Uganda	Travis W. Reynolds, Daniel Tobin
<b>Wolfe, Eve</b>	Global Studies, Religion, CAS	Queer Muslim Expression and Anxiety Under Modernity	Ilyse Morgenstein Fuerst

## POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Cestrono, Alexa and Emma Beaudoin, Hannah Schirling, Hannah Scheibner</b>	Nursing, CNHS	Labor and Delivery Experiences of Autistic Women: A narrative research study	Laura Lewis
<b>Connors, Kristen</b>	Accounting, Grossman	Gender Diversity on US Corporate Boards and its Impact on Sustainable Reporting	Susan Hughes
<b>Diestel, Annabel</b>	Neuroscience, Dance, CAS	Linkages Between Interpersonal Trauma and PTSD Symptoms in an Under served, Trauma Exposed Sample of Pregnant Women: A Network Analysis	Matthew Price
<b>Kirsimagi, Theresa Marie</b>	Neuroscience, CAS	The Effects of Body Mass Index on Hippocampal Volume in Women with Down Syndrome	Julie Dumas, Alicia Ebert
<b>Minot, Joshua R.</b>	Complex Systems, CEMS	Interpretable bias mitigation for textual data: Reducing gender bias in patient notes while maintaining classification performance	Christopher M. Danforth, Nicholas Cheney, Peter Sheridan Dodds

# SPECIAL SESSION CLIMATE CHANGE

## UVM VIRTUAL STUDENT RESEARCH CONFERENCE

**APRIL 15TH-18TH, 2021**

VoiceThread Link:

<https://voicethread.com/myvoice/browse/threadbox/5332>

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### ORAL AND PAPER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Bostwick, Maya</b>	Environmental Studies, CAS	The Psychological Impacts of Teaching Climate Change to Undergraduate Students	Amy Seidl
<b>Dutton, Deniz</b>	Environmental Sciences, Rubenstein	Assessing the Impact of Climate Change on the Productivity of Vermont's Forests	Gillian Galford

### POSTER PRESENTATIONS

Presenter Name	Department/Program, College	Presentation Title	Faculty Mentor
<b>Coppola, Isabel Grace</b>	Environmental Studies, Political Science, CAS	Eco-Anxiety in “the Climate Generation”: Is Action an Antidote?	Rachelle Gould, Amy Seidl

<b>Hehlen, Mark E.</b>	Geology, CAS	Remote Sensing Mass Loss of Ice Sheet Outlet Glaciers: Comparing Greenland and Antarctic Outlet Glaciers	Keith Klepeis
<b>Werner, Kristen</b>	Biology, CAS	Climate change and the Coquí: Temperature-driven changes to frog calls in Puerto Rico	Laura May-Collado