2021 SURF Symposium

KALEN BAKER
Major in Mechanical Engineering
Mentor: Dr. Ping He
Assistant Professor of Mechanical Engineering

Research in Mechanical Engineering and Physics
“Theoretical Research on Sintering of Metals Based on Results of Molecular Simulations”
Development and assessment of hardware model for studying the mechanism of Regenerative Braking System (RBS)
Research in Environmental Sciences
“Biological Treatment of Produced Water”
Melissa Tan
Major in Civil and Environmental Engineering
Mentor: Dr. Thinesh Selvaratnam
Assistant Professor of Civil and Environmental Engineering

Research in Environmental Sciences
“Studying the Extracellular Polymeric Substances of Galdieria Sulphuraria as Flocculation Aid for Improving Algal Harvesting Efficiency”
MELISSA TAN
AND DR. THINESH
SELVARATNAM

AUGUST 3, 2021
2021 SURF Symposium

GABRIEL WEST

Major in Mechanical Engineering

Mentors: Dr. Sushil Doranga
Visiting Assistant Professor of Mechanical Engineering

Dr. Jenny Zhou
Professor & Interim Chair, Mechanical Engineering

Research in Mechanical Engineering

“Vibration Response Prediction of Printed Circuit Boards Used in the Transportation Industry”
Damaris Thrash

Major in Exercise Science

Mentor: Dr. Shannon Jordan
Assistant Professor of Health and Kinesiology

Research in Exercise Science
“Effects of Motivational Music on Post-Exercise Recovery”
DAMARIS THRASH

MARCH 24, 2021
OLUWATOMISIN EGBEWALE
Major in Computer Science

Mentors: Dr. Sujing Wang
Associate Professor of Computer Science
Dr. Xingya Liu
Assistant Professor of Computer Science

Research in Computer Science
“Security evaluation of a cloud-based biometric authentication system “
Oluwatomiisin EgbeWale

March 24, 2021
Callan Noak
Major in Computer Science
Mentor: Dr. Sujing Wang
Associate Professor of Computer Science

Research in Computer Science
Research in Biology

“The Effect of Starch Copper Oxide Nanoparticles on Differential Growth of Microbial Populations in Aquatic Environments”
Research in Microbiology and Parasite Immunology

“Trichomonas Vaginalis Induced Toll-like Receptor Gene Expression in Cervical Epithelial Cells”
Danielle Soileau

Research in Microbiology and Parasite Immunology

“Characterization of a Novel Cell Surface Protein Coding Gene, TfAD1 in Tritrichomonas Foetus, a Cattle Pathogen”
CEasar “C.J.” Delgado

Major in English and Modern Languages

Mentors: Mr. Andre Favors
Instructor of Communication and Media
Mr. O’Brien Stanley
Professor of Communication and Media

Research in Intercultural Languages
"Cultural Identity and Digital Citizenship: How Do Social Media Consumers and Creators Reconcile their Identities in the Digital World"
CESAR “C.J.” DELGADO

MARCH 24, 2021
“Where are my friends?” A narrative inquiry of friendship maintenance and dissolution in the early period post-stroke and aphasia.
Dear Jamie,

I hope this letter finds you well. I wanted to take a moment to express my gratitude for all the support you have provided me over the past few weeks. Your guidance and encouragement have been invaluable during this time of change and transition in my life.

I remember the day we first met, sitting in the office, discussing the challenges I was facing. Your warm and non-judgmental presence made me feel heard and understood. I still recall the feeling of relief and comfort I experienced when you told me that you were there for me, no matter what. That simple gesture meant so much to me.

Over the past few months, you have been my constant companion through the ups and downs of my journey. Your empathy and understanding have allowed me to feel safe enough to be vulnerable, and your wisdom has provided me with the tools to navigate the unknown.

As we continue on this path together, I want you to know that I am committed to doing the work that is necessary for my growth. I am grateful for the support and encouragement you have shown me, and I look forward to the continued support you will provide as I embark on this new chapter.

Thank you for being such a positive force in my life. I am grateful for your presence and the impact you have had on me.

With gratitude,

[Your Name]
CHLOE SMITH

Major in Speech and Hearing Sciences

Mentor: Dr. Monica Harn
Professor and Chair of the Department of Speech and Hearing Sciences

Research in Speech and Hearing Sciences
“A Cross-Sectional Study of the Portrayal of Childhood Speech Sound Disorder Interventions in YouTube Videos”
CHLOE SMITH

MARCH 24, 2021
Research in Finances and Business Management

“The Financial Impact of COVID-19 on Businesses in Dining and Hospitality Industries in Southeast Texas”