

AFTERNOON POSTER SESSION: ABSTRACT TITLES

GRADUATE STUDENTS

Computational and Data Sciences

- 1. Analysis of Hippotherapy on Pelvic Motion**
Presenter(s): Kyle Anderson
Advisor(s): Dr. Cyril Rakovski, Dr. Marybeth Grant-Beuttler
- 2. Distribution of Family-Based Association Tests in small sample sizes**
Presenter(s): Louis Ehwerhemuepha
Advisor(s): Dr. Cyril Rakovski
- 3. Exploring Edge Based Techniques for Digital Image Forgery Detection**
Presenter(s): Chloe Martin
Advisor(s): Dr. Mohamed Allali
- 4. Image Noise Removal: A Fourier Filtering Approach**
Presenter(s): Luciano Rodriguez, Jeanette Pineda
Advisor(s): Dr. Mohamed Allali
- 5. Barth's Syndrome: An Algorithm Comparison**
Presenter(s): Sherri Verudgo
Advisor(s): Dr. Cyril Rakovski

Food Science

- 6. The Effects of Modified Atmosphere Packaging, Irradiation, and Methyl Bromide Fumigation on the Quality and Shelf-life of Sweet Cherries**
Presenter(s): Kimberlee Au
Advisor(s): Dr. Anuradha Prakash
- 7. The Effect of the Degrees of Lyophilized, Spent, and Whole Ground Coffee Roast on the Production of Lipid Oxidation Products and Tetrad Discrimination in Frozen, Cooked Ground Beef**
Presenter(s): Patrick Kim, Dr. Lilian Were, Dr. Fred Caporaso, Dr. Criselda Toto
Advisor(s): Dr. Lilian Were
- 8. Ground roasted coffee as an antioxidant in raw top round ground beef and the effects of varying roast degrees, salt and coffee concentrations**
Presenter(s): Crystal Lin, Dr. Criselda Toto, Dr. Lilian M. Were
Advisor(s): Dr. Lilian Were
- 9. The Effects of Modified Atmosphere Packaging, Gamma Irradiation, and Methyl Bromide Fumigation on the Chemical, Physical, and Sensory Quality of Blueberries**
Presenter(s): Karen Thang, Dr. Anuradha Prakash, Dr. Cyril Ravoksi
Advisor(s): Dr. Anuradha Prakash

10. Binding Interaction of Coffee with Beef Sarcoplasmic Protein and Effect on Lipid Oxidation

Presenter(s): Yining Zhang

Advisor(s): Dr. Lilian Were

Hazards, Global and Environmental Change

11. Mapping the Progression of Phytophthora Ramorum

Presenter(s): Thomas Banh, Dr. Hesham El-Askary, Jing Jing Li

Advisor(s): Dr. Hesham El-Askary

12. Change Detection of Glacial Retreat in the Sierra Nevada's from 2000 to 2014

Presenter(s): Tommy Ta, Dr. Hesham El-Askary

Advisor(s): Dr. Hesham El-Askary

13. Analysis the Dust Aerosols Effect Sierra Nevada Glaciers Changes by Using Remote Sensing Methods

Presenter(s): Xinyi Zhang

Advisor(s): Dr. Hesham El-Askary

Physical Therapy

14. Case Report: Weight Drop Perturbation Training

Presenter(s): Julia Bancroft, Patricia Brown, Dr. Lynn Tierney

Advisor(s): Dr. Lynn Tierney, Dr. James Brown

15. Physical Therapist Beliefs and Perceptions of a Monthly, Topic-Specific Research Discussion Group: A Structured Approach to Evidence-Based Practice

Presenter(s): Chelsea Clark, Dr. Marybeth Grant-Beuttler

Advisor(s): Dr. Marybeth Grant-Beuttler

16. Development of Gait Analysis Software Utilizing the Kinect Sensor

Presenter(s): Philip Friesen, R.C. Friesen, Dr. Marybeth Grant-Beuttler

Advisor(s): Dr. Marybeth Grant-Beuttler

17. Gross Motor Delay Secondary to Feeding and Gastroesophageal Reflux Disease (G.E.R.D.) in a 7-month-old Infant

Presenter(s): Jennifer Greene, Dr. Marybeth Grant-Beuttler

Advisor(s): Dr. Marybeth Grant-Beuttler

18. Effects of Hippotherapy Research Project: A Retrospective Analysis

Presenter(s): Janev Morris, Kyle Anderson, Dr. Marybeth Grant-Beuttler, Kristin Hatten, Chris Swan, Dr. Cyril Rakovski, Allie Winkle

Advisor(s): Dr. Marybeth Grant-Beuttler

19. Physical Therapy Management of Long Thoracic Nerve Palsy: A Case Report

Presenter(s): Cameron Rau, Keith Mahler

Advisor(s): Dr. Marybeth Grant-Beuttler

20. High-Dye Taping and Balance Intervention in a Pediatric Subject, A Case Report

Presenter(s): Jennifer Whitehead, Dr. Marybeth Grant-Beuttler, Catherine Rodriguez, Heather Sugg

Advisor(s): Dr. Marybeth Grant-Beuttler

Marriage and Family Therapy

21. The Orgasm Gaps: Differences in reported orgasm frequency by gender and sexual orientation

Presenter(s): BJ Tilos, Chantal Avakain-Fisher, Jenna Alley, Dr. David Frederick, Misha Wilks

Advisor(s): Dr. David Frederick

AFTERNOON POSTER SESSION: ABSTRACT TITLES UNDERGRADUATE STUDENTS

22. Identification of Meat Species in Pet Foods Using a Real-time Polymerase Chain Reaction (PCR) Assay

Presenter(s): Tara Okuma, Dr. Rosalee Hellberg

Advisor(s): Dr. Rosalee Hellberg

23. Selective Inhibition of Muscarinic Acetylcholine Receptors in Chinese Hamster Ovary Cells

Presenter(s): Daniel Beyon

Advisor(s): Dr. Michael Griffin

24. Assessment of Pomegranate Phytochemical Effects on Apoptosis in Colo-357 Pancreatic Adenocarcinoma Cells via p53 Pathways

Presenter(s): Matthew Earle, Anthony Ewell-Kollmann

Advisor(s): Dr. Melissa Rowland-Goldsmith

25. Cytotoxic Evaluation and Characterization of Select Pomegranate Phytochemicals on Tumor Suppression via Possible p53 Mediation for Treated Colo-357 Pancreatic Adenocarcinoma Cells

Presenter(s): Anthony Ewell-Kollmann, Matthew Earle

Advisor(s): Dr. Melissa Rowland-Goldsmith

26. Effects of HD transduction MOI on the observable aggregation modulation of Apical CCT1

Presenter(s): Kevan O'Connor

Advisor(s): Dr. Elaine Benakas Schwartz

27. Mitigation of bone mineral density loss in resistance-trained, calorie-restricted growing female rats

Presenter(s): Aaron Gerston, Haley Folta, Sarina Karwande, Cassandra Lee, Kimberly Lehmann, Daniel Smithers, Dr. Kenneth Sumida, Quinton Wong

Advisor(s): Dr. Kenneth Sumida

- 28. Investigating Tau and Amyloid Interactions in a Novel Transgenic Alzheimer's Disease Mouse Model**
Presenter(s): A young Park, Wesley Chen, Mathew Blurton-Jones
Advisor(s): Dr. Elaine Benakas Schwartz
- 29. Microbial organic matter reduction in peatland soils: the importance of water-table level.**
Presenter(s): Kristin Gabriel, Kristin Gabriel, Cassandra Medvedeff, Dr. Jason Keller
Advisor(s): Dr. Jason Keller, Dr. Cassandra Medvedeff
- 30. Molecular insights into prostate field cancerization: Are oxidative stress and telomerase inhibition functionally linked to induction of Early Growth Response 1 and Macrophage Inhibitory Cytokine 1?**
Presenter(s): Kristin Gabriel, Kristin Gabriel, Emily Frisch, Dr. Marco Bisoffi
Advisor(s): Dr. Marco Bisoffi
- 31. Applications of Chemiluminescence in the Measurement of Adenylate Cyclase Activity in CHOM2M3 Cells**
Presenter(s): Adam Kalawi
Advisor(s): Dr. Michael Griffin
- 32. The Function of Serotonin Type Three (5-HT₃) Receptors**
Presenter(s): Andreas Schilbach, Tatiana Prytkova, Andreas Schilbach, Dr. Keun-Hang Susan Yang
Advisor(s): Dr. Keun-Hang Susan Yang, Dr. Tatiana Prytkova
- 33. The role of glutamine synthetase in the process of nitrogen resorption from senescing plant leaves**
Presenter(s): Gianvieve Schwirblat
Advisor(s): Dr. Jennifer Funk
- 34. Prostate Field Cancerization: Up-Regulated Expression of Macrophage Inhibitory Cytokine 1 (MIC-1) in Tumor Adjacent Tissue**
Presenter(s): Dor Shoshan, Dr. Marco Bisoffi
Advisor(s): Dr. Marco Bisoffi
- 35. Targeting the Androgen Receptor in Human Cancer Cells Using Analogs of the Natural Product Curcumin (Diferuloylmethane)**
Presenter(s): Homa Hayatyfar, Lijah Vann Gardner
Advisor(s): Dr. Marco Bisoffi
- 36. A Simulation Based Study on the Selection of Optimal Statistical Weights Incorporated in Regression Analysis of Tumor Methylation Data**
Presenter(s): Krish Rangarajan, Dr. Cyril Rakovski
Advisor(s): Dr. Cyril Rakovski

- 37. Relationships between particle size, arsenic concentration, surface area, and bioaccessibility of mine tailings from the Empire Mine, CA**
Presenter(s): Lena Buckendorf
Advisor(s): Dr. Christopher Kim
- 38. Rapid growth, rather than chemical defenses, appears to be the most effective predator deterrent in juveniles of the California sea hare, *Aplysia californica*.**
Presenter(s): Olivia da Silva
Advisor(s): Dr. William Wright
- 39. COMPARATIVE STUDY OF THE EFFICACY OF ALGINATE ENCAPSULATED YOUNG PORCINE PANCREATIC ISLETS IN REVERSING HYPERGLYCEMIA IN DIABETIC MICE**
Presenter(s): Gianni Fiore
Advisor(s): Dr. Kenneth Sumida
- 40. Assessment of the Effects of Pomegranate Juice and Caffeine on Cell Inhibition and Cell Invasion Levels in Pancreatic Ductal Adenocarcinoma Cells**
Presenter(s): Dewmini Gamalath, Lena Haddad, Sydney Pong, Dr. Melissa Rowland-Goldsmith,
Advisor(s): Dr. Melissa Rowland-Goldsmith
- 41. Rad52 competes with Ku70/Ku86 in Binding to Switch Region Double-Strand DNA Break Free Ends in Class Switch DNA Recombination**
Presenter(s): Maheen Kibriya, Dr. Paolo Casali, Maheen Kibriya, Connie Tat
Advisor(s): Dr. Milton Greenberg
- 42. Rad52 Competes with Ku70/Ku86 in Binding to Switch Region Double-Strand DNA Break Free Ends in Class Switch DNA Recombination**
Presenter(s): Maheen Kibriya, Dr. Paolo Casali, Connie Tat
Advisor(s): Dr. Melissa Rowland-Goldsmith
- 43. Identification of Analogs of the Natural Product Curcumin (Diferuloylmethane) with Anti-Proliferative and Anti-Migratory Activity against Prostate Cancer Cells**
Presenter(s): Julie King, Dr. Marco Bisoffi, Kristen Yu
Advisor(s): Dr. Marco Bisoffi
- 44. Effect of Rhizobium on Plant Growth in Nutrient Rich Soils**
Presenter(s): Ladyssara Medina
Advisor(s): Dr. Jennifer Funk
- 45. The Effect of Polyphenols in Senescent Leaf Nitrogen Resorption.**
Presenter(s): Monica Merrill
Advisor(s): Dr. Jennifer Funk

- 46. Comparative Study of the Efficacy of Alginate Encapsulated Young Porcine Pancreatic Islets in Reversing Hyperglycemia in Diabetic Mice**
Presenter(s): Chris Nawar, Gianni Fiore
Advisor(s): Dr. William Wright
- 47. Evolutionary responses of California grassland species to variation in precipitation and nitrogen levels following prescribed fire**
Presenter(s): Amy Ortega, Monica Nguyen
Advisor(s): Dr. Jennifer Funk
- 48. Targeting the Androgen Receptor in Human Cancer Cells Using Analogs of the Natural Product Curcumin (Diferuloylmethane)**
Presenter(s): Lijah Vann Gardner, Homa Hayatyfar
Advisor(s): Dr. Marco Bisoffi
- 49. Potential anaerobic carbon dioxide and methane production in three peatland soil profiles**
Presenter(s): Victoria Brown, Ari Jong, Dr. Jason Keller, Dr. Cassandra Medvedeff
Advisor(s): Dr. Jason Keller, Dr. Cassandra Medvedeff
- 50. Effects of Leaf Traits on Rates of Litter Decomposition**
Presenter(s): Hannah Inman
Advisor(s): Dr. Jennifer Funk
- 51. How to Prolong Positive Feelings**
Presenter(s): Roxana Nouri, Julia Boehm, Alexandra Macias
Advisor(s): Dr. Julia Boehm
- 52. Analyzing Effects of PML-RAR α on Gene Expression and Cell Behavior in Cell Line 32DC13**
Presenter(s): Rohan Shah, Dr. Scott Kogan, Sushma Umesh, Trevor Bentley, Dr. Nidhi Nuwal
Advisor(s): Dr. Melissa Rowland-Goldsmith
- 53. Impact of Feral Parrots in Orange County, CA**
Presenter(s): Priscilla Soto-DiNapoli
Advisor(s): Dr. Walter Piper
- 54. Estimating the Costs and Benefits of Complex Adaptations: Reproductive Success of Eyeless Mutants vs Wild-Type *Drosophila* in Light and Dark Environments**
Presenter(s): Jesse Simons
Advisor(s): Dr. William Wright, Professor Robert Becker
- 55. Sulfate Particulate Emissions of Coal and Natural Gas-Fired Power Plants**
Presenter(s): Colin Gray
Advisor(s): Dr. Catherine Clark

- 56. Depth analysis of chromophoric dissolved organic matter (CDOM) optical properties in salt marsh pore waters**
Presenter(s): Jenny Bowen, Dr. Catherine Clark, Dr. Warren De Bruyn, Dr. Jason Keller, Kelly Royere
Advisor(s): Dr. Catherine Clark
- 57. Autism Management Platform's Mobile Application**
Presenter(s): Ryan Burns
Advisor(s): Dr. Erik Linstead
- 58. AMP (Autism Management Platform)**
Presenter(s): Kendall Holmes, Anthony Young, Ryan Burns, Duy Nguyen, David Tyler
Advisor(s): Dr. Erik Linstead
- 59. Power Consumption of a Decoder**
Presenter(s): Garrett Isaacs
Advisor(s): Dr. Peiyi Zhao
- 60. Graphical Scripting Language for Game Trigger Systems**
Presenter(s): Matthew Loesby
Advisor(s): Professor Vincent Morrison
- 61. Exploring Computer Vision with the Microsoft Kinect**
Presenter(s): Gregory Maier
Advisor(s): Dr. Michael Fahy
- 62. Smart Dresser: An application designed to help young girls with autism spectrum disorder understand and create socially acceptable outfits**
Presenter(s): Aneesha Prakash, Mirabel Rice, Justine Stewart, Jennifer Re
Advisor(s): Dr. Erik Linstead
- 63. AMP: A Platform for Managing and Mining Data in the Treatment of Autism Spectrum Disorder**
Presenter(s): David Tyler, Ryan Burns, Elliot Cooley, Dr. Erik Linstead, Alan Litteneker, Duy Nguyen
Advisor(s): Dr. Erik Linstead
- 64. Effects of Adsorption Time on Retention of Copper(II) onto Iron Oxyhydroxide Nanoparticles**
Presenter(s): Jack Jacobs
Advisor(s): Dr. Christopher Kim
- 65. Windborne transport and surface enrichment of arsenic in semi-arid mining regions: examples from the Mojave Desert, California**
Presenter(s): Tyler Anthony, Daniel Goldstein, Dr. Christopher Kim
Advisor(s): Dr. Christopher Kim

- 66. Chapman University 2014 Campus Environmental Audit: Residential Buildings**
Presenter(s): Tyler Anthony, Chloe McConnell
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 67. Chapman University 2014 Campus Environmental Audit: Water Features**
Presenter(s): Jennifer Feinstein and Daniel Moore
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 68. Chapman University 2014 Campus Environmental Audit: Academic Buildings**
Presenter(s): Emily Gittleman, Saba Sadeghi
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 69. Chapman University 2014 Campus Environmental Audit: New Construction**
Presenter(s): Samuel Kieckhefer, Nick Marino, Chloe McConnell
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 70. Landscaping Alternatives**
Presenter(s): Nicholas Marino, Sophie Gantz
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 71. Chapman University 2014 Campus Environmental Audit: Landscaping Alternatives**
Presenter(s): Nicholas Marino, Sophie Gantz
Advisor(s): Dr. Christopher Kim, Mackenzie Crigger
- 72. Potential anaerobic carbon dioxide and methane production in three peatland soil profiles:
The role of carbon limitation**
Presenter(s): Ariane Jong, Victoria Brown, Ari Jong, Dr. Jason Keller, Cassandra Medvedeff
Advisor(s): Dr. Jason Keller
- 73. The Effects of Irradiation, Fumigation, and Modified Atmosphere Packaging on the Phenolic
and Vitamin C Content in Blueberries and Cherries**
Presenter(s): Miriam Alpert
Advisor(s): Dr. Lilian Were
- 74. Knowledge of Sexually Transmitted Diseases and the Behavior of Safe Sex Practices Among
College Students**
Presenter(s): Miriam Alpert, Matt Kurashige, Justin LaLonde, Kellen Matsuno
Advisor(s): Dr. Roberta Lessor
- 75. The Significance of Varying Social Support Systems on the Health Outcomes of Teenage
Mothers**
Presenter(s): Amanda Boukal, Cydnee Dufenhorst, Brooke Gehris, Kelly Gehris, Samantha
Halela, Rebecca Spear
Advisor(s): Dr. Roberta Lessor
- 76. Is Distracted Driving Linked to a Larger Problem of Distracted Living?**
Presenter(s): Sarina Karwande, Alison Hirshan, Ashley Nieto, Lauren Rhodes, Chase Tamashiro

Advisor(s): Dr. Roberta Lessor

77. The Evolution of Physical Therapy: A Content Analysis Study of the Focus of Physical Therapy over Time

Presenter(s): Ryan Stuhr, Sophia Duong, Miranda Melling, Lisa Peterkin, Justin Young

Advisor(s): Dr. Roberta Lessor

78. Childhood Obesity in Orange County

Presenter(s): Timothy Cook, Jacob Mohler, Dr. Kelly Sparks, Kyle Troiano

Advisor(s): Dr. Roberta Lessor

79. Touching and Kissing: Tangent Lines and Osculating Circles Before Calculus

Presenter(s): Elliot Cooley

Advisor(s): Dr. Daniele Struppa

80. Jet Substructure Simulation Analysis at High Luminosity for Potential New Physics

Presenter(s): Luz Jimenez-Vela, Emily Thompson

Advisor(s): Dr. Eric Minassian

81. Effective Decision Tree Learning

Presenter(s): Brian Kmetz

Advisor(s): Dr. Erik Linstead

82. Geometry and Topology of Hamiltonian Mechanics

Presenter(s): Kyle (Kun Su) Lee, Dr. Roman Buny

Advisor(s): Dr. Roman Buny

83. Effect of Exercise on a Mother's Postpartum Depression

Presenter(s): Itzel Anaya

Advisor(s): Dr. Steven Schandler

84. Do you quit? Resilience in first generation college students.

Presenter(s): Adriana Ariza, Dr. Connie Shears

Advisor(s): Dr. Connie Shears

85. Effects of Cognitive Interventions on the Cognition of Patients Diagnosed With Dementia

Presenter(s): Kiersten Kelly

Advisor(s): Dr. Steven Schandler

86. Perception of Emotion in Music Through Physiological Arousal

Presenter(s): Jay Kim

Advisor(s): Dr. Steven Schandler

87. Differences in Character Strengths between First Year and Upper Division College Students

Presenter(s): Madeleine Matheis, Lilian Andrade, Dr. Julia Boehm, Madeleine Matheis

Advisor(s): Dr. Julia Boehm

- 88. Gay Male, Mental Health, Perceived Discrimination, and Emotional Reactivity: A Multiple Mediation Effect**
Presenter(s): Theodore Miller
Advisor(s): Dr. David Pincus
- 89. Post Exposure Prophylaxis: An Important Tool for Comprehensive HIV Prevention Among Men Who Have Sex With Men**
Presenter(s): Theodore Miller, Dr. David Frederick
Advisor(s): Dr. David Frederick
- 90. Communication and Information Technologies and Work-Life Balance**
Presenter(s): Kamila Petrencik
Advisor(s): Dr. Steven Schandler
- 91. Psychological Well-being Predicts Toddler Cognitive Development**
Presenter(s): Netasha Pizano, Elysia P. Davis, Dr. Laura Glynn, Curt Sandman, Christin Walder
Advisor(s): Dr. Laura Glynn
- 92. Hemisphere Differences: Inferences and Emotional Language**
Presenter(s): Erika Sam, Dr. Connie Shears, Adriana Ariza, Jay Kim, Melissa Bond, Maisy Lam, Shaun Flax
Advisor(s): Dr. Connie Shears
- 93. Moving Beyond the Keys: Talk Aloud Protocols to Measure What's on Your Mind**
Presenter(s): Erika Sam, Dr. Connie Shears, Adriana Ariza, Jay Kim, Shaun Flax, Francesco Onorati
Advisor(s): Dr. Connie Shears
- 94. Accommodating Hyperaroused Information Processing in Persons at Risk for Alcoholism**
Presenter(s): Brooke Snelgrove, Kellianne Clark, Taylor Stephens
Advisor(s): Dr. Steven Schandler
- 95. Examining Relationships in Children of Divorced Families**
Presenter(s): Samantha Spielfogel
Advisor(s): Dr. Steven Schandler
- 96. Cognitive Evaluation of Methods for Providing Evacuation Information**
Presenter(s): Taylor Stephens, Angela Juister
Advisor(s): Dr. Steven Schandler, Professor Claudine Jaenichen
- 97. Enhanced Maternal Well-Being Associated with Reduced Risk of Preterm Birth**
Presenter(s): Christin Walder, Dr. Laura Glynn, Netasha Pizano
Advisor(s): Dr. Laura Glynn
- 98. Knowledge Worker Motivation: A Cross Sector Comparison**

Presenter(s): Paulette Garcia
Advisor(s): Dr. Steven Schandler

99. Study of Socioeconomic, Sanitation and Hygiene Factors as Determinants of Recurrent Diarrhoea in Children Aged Five and Under in Sundarban Area

Presenter(s): Sohini Mukherjee
Advisor(s): Dr. Justine Van Meter

100. Wealth, Education, and Obesity Predict Prevalence Rates of Postpartum Depression Across Nations

Presenter(s): Taylor Delaney, Itzel Anaya, Dr. Jennifer Hahn-Holbrook, Emily Schlaefer
Advisor(s): Dr. Jennifer Hahn-Holbrook