Computational and Data Sciences

1. **Analysis of Hippotherapy on Pelvic Motion**  
   *Presenter(s):* Kyle Anderson  
   *Advisor(s):* Dr. Cyril Ravoksi, Dr. Marybeth Grant-Beuttler

2. **Distribution of Family-Based Association Tests in small sample sizes**  
   *Presenter(s):* Louis Ehwerhemuepha  
   *Advisor(s):* Dr. Cyril Ravoksi

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 Ravoksi

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

_Presenter(s):_ Xinyi Zhang  
_Advisor(s):_ Dr. Hesham El-Askary

Physical Therapy

_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

_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

_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

**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, Kassandra 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-RARa 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, Cydney 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
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 an 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 Buniy  
   **Advisor(s):** Dr. Roman Buniy

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
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