Brigham Young University
Announcement of Thesis & Dissertation Defenses

Travis Jonathan Clarke
Neuroscience, MS
Title: Neuroimmune-Mediated Alcohol Effects on Ventral Tegmental Area Microglia and Infiltrating Leukocytes
Committee Chair: Scott C. Steffensen
    July 16, 2018
    10:00 AM in 5001 LSB

Marko Popovic
Chemistry, PhD
Title: Application of Entropy Concept in Thermodynamics and Life Sciences
Committee Chair: Brian F. Woodfield
    July 16, 2018
    11:00 AM in C207 BNSN

Jared M. Hawkins
Marriage & Family Therapy, MS
Title: U.S. Racial/Ethnic/Cultural Groups in Counseling Psychology Literature: A Content Analysis
Committee Chair: Roy A. Bean
    July 16, 2018
    12:00 PM in 279 TLRB

Christopher James Bott
Mathematics, MS
Title: Mirror Symmetry for K3 Surfaces with Nonsymplectic Automorphism
Committee Chair: Nathan C. Priddis
    July 16, 2018
    2:00 PM in 301 TMCB

Colin Andrus Hale
Geology, MS
Title: Strontium Isotopes—A Trace for Dust and Flow Processes in an Alpine Catchment
Committee Chair: Gregory T. Carling
    July 17, 2018
    9:00 AM in N181-D ESC

Kevin Ray Moore
Mechanical Engineering, MS
Title: Distributed Electric Propulsion Conceptual Design Applied to Traditional Aircraft Talk Distance Through Multidisciplinary Design
Committee Chair: Simeon A. Ning
    July 17, 2018
    9:00 AM in 290B FB

Michael Roger Deyhle
Exercise Sciences, PhD
Title: The Role of T Cells in Muscle Damage Protective Adaptation
Committee Chair: Robert Douglas Hyldahl
    July 17, 2018
    2:00 PM in 106 RB

Michael H. Talbot
Civil Engineering, PhD
Title: Dynamic Cone Penetration Tests for Liquefaction Evaluation of Gravelly Soils
Committee Chair: Kyle Rollins
    July 17, 2018
    2:00 PM in 276 FB

Bryce Taylor Ingersoll
Mechanical Engineering, MS
Title: Efficient Incorporation of Fatigue Damage Constraints in Wind Turbine Blade Optimization
Committee Chair: Simeon A. Ning
    July 17, 2018
    3:00 PM in 431 CTB

Adrienne D. Henderson
Exercise Sciences, MS
Title: Gait Alterations and Plantar Pressure in Diabetic Peripheral Neuropathy: A Preliminary Study
Committee Chair: Dustin Andrew Bruening
    July 18, 2018
    10:00 AM in 214 RB

Lindsay Jennae Soelberg
Mathematics, MS
Title: Finding Torsion-Free Groups Which Do Not Have the Unique Product Property
Committee Chair: Pace Peterson Nielsen
    July 18, 2018
    11:00 AM in 301 TMCB

Samantha Elizabeth Phillips
Wildlife & Wildlands Conservation, MS
Title: Composition of the Community of Small Mammals in the Great Basin Desert
Committee Chair: Brock R. McMillan
    July 18, 2018
    2:00 PM in 4739 HBLL
Ying Zhang  
Chemistry, PhD  
Title: Synthesis and Determination of the Local Structure and Phase Evolution of Unique Boehmite-Derived Mesoporous Alumina and Doped Alumina  
Committee Chair: Brian F. Woodfield  
July 18, 2018  
2:00 PM in C-107 BNSN

Phillip Douglas Stevenson  
Mechanical Engineering, MS  
Title: Methods and Metrics to Measure and Predict the Social Impact of Engineered Products  
Committee Chair: Christopher Andrew Mattson  
July 18, 2018  
3:30 PM in 431 CTB

Dane Jordan Bjork  
Computer Science, MS  
Title: An Algorithm for Symbolic Computing of Singular Limits of Dynamical Systems  
Committee Chair: Sean C. Warnick  
July 19, 2018  
10:00 AM in 3346 TMCB

Paul Samuel Hafen  
Exercise Sciences, PhD  
Title: Deep-Tissue Heating as a Therapeutic Intervention to Prevent Skeletal Muscle Atrophy in Humans  
Committee Chair: Robert Douglas Hyldahl  
July 19, 2018  
10:00 AM in 106 RB

Paul Mark Bodily  
Computer Science, PhD  
Title: Machine Learning for Inspired, Structured, Lyrical Music Composition  
Committee Chair: Dan Aaron Ventura  
July 20, 2018  
10:00 AM in 3350 TMCB

Olivia Tateoka Brown  
Microbiology and Molecular Biology, MS  
Title: Methods for Detection of and Therapy for Carbapenem-Resistant Enterobacteriaceae  
Committee Chair: Richard A. Robison  
July 20, 2018  
10:00 AM in 4014 LSB

Sunku Kwon  
Exercise Sciences, MS  
Title: The Effects of Ice and TENS Combination Treatment on Knee and Hip Joint Neuromechanics in Individuals with Experimentally Induced Knee Pain During Running  
Committee Chair: Matthew K. Seeley  
July 20, 2018  
10:00 AM in 214 RB

Robert Tucker Sprenkle  
Physics, MS  
Title: Ion Friction at Small Values of the Coulomb Logarithm  
Committee Chair: Scott D. Bergeson  
July 20, 2018  
10:00 AM in C266 ESC

Joanna Rosa Bateman  
Biology, MS  
Title: Species Delimitation Predictions Using Mitochondrial and Nuclear DNA Sequences from the *Heteromyx pictus-spectabilis* Species Complex  
Committee Chair: Duke S. Rogers  
July 20, 2018  
12:00 PM in 4014 LSB

Alyssa Evans  
Exercise Sciences, MS  
Title: The Effect of Mechanical Load on Biomarkers of Knee Joint Inflammation for Individuals Who Are Predisposed to Knee Cartilage Degeneration: An Exploratory Study  
Committee Chair: Matthew K. Seeley  
July 20, 2018  
2:00 PM in 249K SFH