Brigham Young University
Announcement of Thesis & Dissertation Defenses

Theodore James Moffett
Civil Engineering, MS
Title: Relationship Between Compressive Strength of In-Situ and Laboratory-Prepared Mortar
Committee Chair: Fernando S. Fonseca
November 26, 2018
11:00 AM in 434A EB

Chandler Ryan Newby
Technology, MS
Title: Designing Cybersecurity Competitions in the Cloud: A Framework and Feasibility Study
Committee Chair: Dale Christopher Rowe
November 26, 2018
3:00 PM in 435 CTB

Shannon Shun Yin Oh
Civil Engineering, MS
Title: Experimental Evaluation of Replacement Shear Fuse Moment Connections
Committee Chair: Paul William Richards
November 26, 2018
3:00 PM in 434A EB

Michael Sterling Farnsworth
Mechanical Engineering, MS
Title: Wall Shear Stress in Simplified and Scanned Avian Respiratory Airways
Committee Chair: Scott L. Thomson
November 26, 2018
4:00 PM in 402 EB

Christian Kurniawan
Mechanical Engineering, MS
Title: Property Localization for Grain Boundary Diffusivity via Inverse Problem Theory
Committee Chair: Oliver Kent Johnson
November 27, 2018
8:30 AM in 4739 HBLL

Fred Stile Fagergren
Mechanical Engineering, MS
Title: Using Non-Destructive Testing to Predict Bending Modulus of Carbon-Infiltrated Carbon Nanotubes
Committee Chair: Brian D. Jensen
November 27, 2018
12:00 PM in 346 EB

Samuel Hunter Hayden
Mechanical Engineering, MS
Title: The Design, Construction, and Thermal Diffusivity Measurements of the Fluorescent Scanning Thermal Microscope (FSTM)
Committee Chair: Troy R. Munro
November 27, 2018
1:00 PM in 302 EB

Akash Savio Amalaraj
Mechanical Engineering, MS
Title: 5D Grain Boundary Characterization from EBSD Microscopy
Committee Chair: David T. Fullwood
November 27, 2018
2:00 PM in 4739 HBLL

Taylor L. Schroeder
Mechanical Engineering, MS
Title: Conceptual Design of a Pilot-Scale Pressurized Coal-Feed System
Committee Chair: Bradley R. Adams
November 27, 2018
4:00 PM in 346 EB

Alex Avila
Mechanical Engineering, MS
Title: Origami-Based Design of Fold States and Stability
Committee Chair: Spencer P. Magleby
November 28, 2018
1:00 PM in 302 EB

Duane Keith Dougal
Computer Science, MS
Title: Improving the Quality of Neural Machine Translation Using Terminology Injection
Committee Chair: Deryle W. Lonsdale
November 28, 2018
3:00 PM in 3350 TMCB

Silvia Juliana Moncada Diaz
Chemical Engineering, MS
Title: Repopulation and Stimulation of Porcine Cardiac Extracellular Matrix to Create Engineered Heart Patches
Committee Chair: Alonzo D. Cook
November 28, 2018
3:00 PM in 334A EB
Thomas Jack Esplin White
Marriage, Family, & Human Development, MS
Title: Understanding Men's Involvement in Marital Interventions
Committee Chair: Stephen Farr Duncan
November 28, 2018
3:00 PM in 2198 JFSB

Adin Douglas Martineau
Mechanical Engineering, MS
Title: Estimation of Knee Kinematics Using Non-Monotonic Nanocomposite High-Deflection Strain Gauges
Committee Chair: Anton E. Bowden
November 29, 2018
7:00 AM in 326 EB

Meagan Cahoon Alder
Marriage & Family Therapy, PhD
Title: Attachment and Relationship Quality: A Longitudinal Cross-Lagged Panel Model Examining the Association of Attachment Styles and Relationship Quality in Married Couples
Committee Chair: Jonathan G. Sandberg
November 29, 2018
12:00 PM in 227 TLRB

Casey Owen Messick
Mechanical Engineering, MS
Title: Examining the Mechanics Responsible for Strain Delocalization in Metallic Glass Matrix Composites
Committee Chair: Eric R. Homer
November 29, 2018
1:00 PM in 346 EB

Trevor Keith Decker
Electrical & Computer Engineering, PhD
Title: Planar Linear Ion Traps with Microscale Radii for Portable Mass Spectrometry
Committee Chair: Aaron R. Hawkins
November 29, 2018
3:00 PM in 402 EB

Javid Kennon Pack
Computer Science, MS
Title: Real-Time FLIP Fluid Simulation Through Matching Learning Approximations
Committee Chair: Parris K. Egbert
November 30, 2018
9:00 AM in 3350 TMCB

Kristen Michelle Wilding
Chemical Engineering, PhD
Title: Engineering Cell-Free Biosystems for On-Site Production and Rapid Design of Next-Generation Therapeutics
Committee Chair: Bradley C. Bundy
November 30, 2018
10:00 AM in 334A EB

Thomas Sterling Ellsworth
Computer Science, MS
Title: The Bird and the Fish: Motion Field-Based Frame Interpolation in the Context of a 2D Animation
Committee Chair: Seth R. Holladay
November 30, 2018
11:00 AM in 3350 TMCB

Aaron Ross Wilson
Educational Leadership, EdD
Title: Exploring the Capacity Development of Novice School Administrators: It's Not Where Capacity Sources Are Accessed but How
Committee Chair: Sterling Clint Hilton
November 30, 2018
1:00 PM in 307 MCKB

Ronald Abraham Martin
Chemical Engineering, PhD
Title: Optimization-Based Spatial Positioning and Energy Management for Unmanned Aerial Vehicles
Committee Chair: John D. Hedengren
November 30, 2018
2:00 PM in 334A EB

Florence Westenskow
Spanish, MA
Title: Experiences in Professional Development of Project-Based Language
Committee Chair: Cherice Michelle Montgomery
November 30, 2018
2:30 PM in 3198 JFSB

Joseph Stuart Browning
Civil Engineering, MS
Title: Developing a Method to Identify Horizontal Curve Segments with High Crash Occurrences Using the HAF Algorithm
Committee Chair: Mitsuru Saito
November 30, 2018
3:00 PM in 434A EB
Fanqing Lin
Computer Science, MS
Title: Flow Adaptive Video Object Segmentation
Committee Chair: Tony R. Martinez
November 30, 2018
3:00 PM in 3346 TMCB