2013 AFRL/DAGSI Fellowship Awards

RH: Human Effectiveness

Sarah Allison and Keke Chen (WSU), sponsor Schmidt: Efficient and Scalable Information Fusion of Space Data (MS)

Michael Nickels and Mary Fendley (WSU), sponsor Warren: Reducing Detection Failures Through Adaptive Decision Support (MS)

Andrew Rhodes and Lei Kerr (Miami U), sponsor Hussain: Development of Artificial Nose for the Study of Engineered Nanomaterial Toxicity and Accumulation in Brain via Olfactory Pathway Exposure (MS)

RQ: Aerospace Systems

Christopher Fischer and Ramana Grandhi (WSU), sponsors Camberos and Lindsley: Multi-Fidelity Analysis for Aerospace Vehicle Design (Ph.D.)

Nick Grannan and Ephraim Gutmark (UC), sponsor Litke: The Inverse Brayton Cycle Based Power System (Ph.D.)

Daniel Harriman and Awatef Hamed (UC), sponsor Eklund: Coupling CFD Analysis and Optimization Techniques for Scramjet Engine Design (MS)

Matthew Ryan Pierce and Liming Dai (CWRU), sponsors Merrett and Yost: Interfacial Cracking Solutions for High Temperature Power Electronics (Ph.D.)

Matthew Pinchak and Ephraim Gutmark (UC), sponsor Carter: Characterization of Plasma Enhanced Ignition and Flame Propagation in Supersonic Flow Using Advanced Laser Diagnostics (Ph.D.)

Tyler Vick and Kelly Cohen (UC), Guidance and Control of Air-Breathing Hypersonic Vehicles (MS)

RX: Materials & Manufacturing

Caitlin Bojanowski and Jayne B. Robinson (UD), sponsor Goodson: Use of Bacteriophage for the Prevention, Mitigation, and Detection of Microbial Fuel Contaminants (Ph.D.)

Mark Dodd and Michael Marciniak (AFIT), sponsor Jakubiak: Thin Film Research for Infrared Optical Coatings and Meta-Materials (MS)

Robert Strong and Scott Gold (UD), sponsor Vaia: Adaptive Origami: Printing Mechanically Responsive Substrates for Sequential Fold-Unfold Processes (Ph.D.)

RY: Sensors

Harrison Bourne and Yu Morton (Miami U), sponsor Nguyen: Space Weather Effects on Global Navigational Satellite Systems (GNSS) (MS)

Mark Carroll and Yu Morton (Miami U), sponsor Vinande: Multi-Domain Analysis of Global Navigational Satellite Systems (GNSS) Signals (MS)

Robert Cole and Dmitriy Garmatyuk (Miami U), sponsor Mudaliar: Physics-Based Modeling of Sensor Environment (MS)

Alyssa Gutierrez and Alan Jennings (AFIT), sponsor Taylor: Cloud-Induced Uncertainty for Visual Navigation (MS)

Ethan Lin and Henry Chen (WSU), sponsor Liou: Compressive Sensing Technique Development for EW Receiver Application (Ph.D.)