

Fall 2018 Presentation Series: Advanced Scientific Research at Internship Updated 12/12/2018

Thursday 13-Dec

Title of Topic

8:45am	Stephanie Yao Grant Sanders Daniel Zhou	Using Magnetic Nanoparticle Regeneration to Treat Wastewater from Poultry Processing Plants Improving Team Performance Through Coaching Self-Assessments Analysis of Phosphorus-Affinitive Magnetic Nanoparticles for use in Wastewater Treatment
10:15 am	Parth Desai Alex Taylor James Briley	Comparing the effectiveness of patients learning exercises in physical therapy How Personal Trainers Effectively Sell Personal Training Evaluating Importance of House Buying Factors and Impacts on the Housing Market
12 noon	Prathik Laveti Heily Patel Ethan Schaag	Implementing Gyroscopes in Bicycles to Improve Balancing Ability Cash Flow Retirement Model Using Calculations for Projected Income and Distribution Using 3D Printing to Create More Effective Automotive Pistons
1:45 pm	Andrew Kell Micheal Musser Jeff Norman	The Effects of Event Traffic Plans on Unrelated Traffic What are the most relevant aspects of a gym for attracting members? Using Wins Above Replacement to Evaluate New and Returning Hitters

Friday 14-Dec

Title of Topic

8:45am	Anna Daughterty Isabelle Chalker Audrey Atwell	Comparing Video Learning Engagement Strategies through Knowledge Retention of Sixth Grade Students Creating and Teaching a Lesson The Effectiveness of Digital Learning
10:15 am	Vanessa Leonardo Rucha Gharpure Kendyl Edwards	Progression of Articulation Students in Speech Language Pathology Utilizing Machine Learning String Similarity Metrics for Entity Resolution Evaluating the Advantages and Disadvantages of Non-Negotiated Pleas
12 noon	Abby Fishman Sarang Desai Andrew Daw	Effectiveness of the LUCAS Device Comparing Prices of S&P 500 Consumer Discretionary Stocks with Twitter Sentiment Implementing Automatic Flight Control Systems through Simulink
1:45 pm	Raymond Jiang Andrew Koo Dinko Dermendzhiev Segen Yacob	Using Research and Development Spending to Justify the Valuation of Tesla Performance Effects of Separating 6th to 8th Grade Mathematics Students by Gender The Effects of Seasonal Marketing and Promotions on Gym Successfulness The Effects of Prescribed Medications on Hypertension Recovery

Monday 17-Dec

Title of Topic

8:45am	Andrew Tran Ben Holmes Rahi Shah	Preventing Thermal Decomposition of a Chemical Washing Agent in High Heat Environments The Relationship Between History and Theatre: How It Affects Monetary Success The Relationship Between Ethnicity and Obesity in Pediatric Patients
10:15 am	Samira Hossain Chaitya Jain Katherine Slade	The Effect on Various Surface Training on Gait Rehabilitation for Stroke Patients The Relationship Between Depression and Movement The Color Preferences of the Eastern Box Turtle
12 noon	Sam Adkins	The Relationship between Anxiety and Disease in Pet Canines

	Grant Anderson	Designing a Hydraulic Handbrake Mount Using CAD
	Michelle Nader	Academic Performance in Spanish/English Bilingual Students Compared to Monolingual English Students
1:45 pm	Ayush Goyal	Identifying Player Actions in StarCraft II with Artificial Intelligence
	Nishant Patil	Reproducing the Bioinformatics Analysis and Data Visualization of a Research Paper
	Yifan Zhou	Using Branding and Content on Posts to Affect Instagram Engagement

Tuesday 18-Dec

Title of Topic

8:45am	Fianko Buckle	The Effects of Verbosity in Questions on Mastery in mLevel Missions
	Stephen Fuller	Adapting Gamification Processes for Retrieval-Based Learning
	Caden Felton	An Evaluation of the Effects of Gamification on Engagement in Corporate Training
10:15 am	Sarah Smith	Using Chemical and Land Use Data Over Time to Improve Stream Health
	Gareth Thompson	Using a Decision Matrix to Change Group Exercise Scheduling
	Marcos Padmanabhan	Writing and Designing a Blog on Logo Design and Brand Identity
12 noon	Yerim Cho	Using Python in data science to make book recommendation systems
	Stella Gainford	Benefits of using Airtable in the Audition Process of Professional Theatres
	Andrew Kehoe	Robot Adhesion in Navigating Gas Turbines
1:45 pm	Abhinav Piplani	Determining Interactions Between the Genes <i>cmd-1</i> and <i>ngn-1</i> in <i>C. elegans</i> .
	Ishan Chadha	Uranium Enrichment Optimization via Quantum Tunneling and Machine Learning
	Andrew Mayne	Data Presentation Using Business Intelligence Software
	Jade Rutledge	Effectiveness of Advertisement Campaigns on Facebook and Instagram Over Time

Wednesday 19-Dec

Title of Topic

8:45am	Abigail Ochal	Performance Optimization of Propeller Systems
	Keshav Shenoy	Implementing Capsule Neural Networks in Traffic Light Image Recognition
	Danielle Kisling	Predicting Aggression of dogs during based of feeding, territoriality, and fear
10:15 am	Shraddha Sekhar	An Investigation of Biphasic Flow Through a Helmholtz Resonator
	Maya Patel	How do Augmentative and Alternative Communication Devices affect Development
	Deepthi Kumar	Differences between hospital-acquired conditions obtained in the 50 states from 2012-2015
12 noon	Shayan Boghani	Standardizing Makerspace Training Methods Using Augmented Reality
	Adam Profili	Effect of brood on food distribution by <i>Solenopsis invicta</i> fire ant colonies
	Anjan Narayanaswamy	Implementing an Internet of Things Solution to Measure Accuracy of User Data
1:45 pm	Caroline Lanier	The Impact of Music Course Participation on STEM Academic Success
	Lauren Greenblatt	Group Versus Individual Success in a First Grade STEAM Design Project
	Elizabeth Wolfson	The Mindset of Top-Level Athletes Who Compete at the National Level
	Elijah Pritchett	Cognitive Decline with Age in Individuals with Autism Spectrum Disorder

Thursday 20-Dec

Title of Topic (Early Release 1 and 2)

8:45 AM	Megan Day	The Effects of Video Production Techniques on Men's and Women's Sports Broadcasts
	Arya Mevada	Effect of Hip Rotation and Front Leg Bracing on Injury Risk
	Mahsan Sadegh Aghdam	Evaluating Aggression, Fear, and Anxiety in Various Canine Breeds

Friday 21-Dec

8:45 AM Zach Yahn

David Weinberg

Hanna Waltz

Title of Topic (Early Release 3 and 4)

Creating an Artificial Dielectric By Manipulating 3D Printed Anisotropic Surfaces

β -Glucuronidase Enzyme Reaction Activity Optimization for the Hydrolysis of Codeine-6-Glucuronide

Platelets and Pathogenic Simian Immunodeficiency Virus in Sooty Mangabeys and Rhesus Macaques