

RSCAD Opportunities for Undergraduate Students

Faculty	Project	Tasks	Possible Outcomes
C. Ade (KINES) cade@ksu.edu	Projects are currently focused on understanding changes in cardiovascular function with disease progression (i.e., cancer chemotherapy, hypertension, MI, CAD/PAD) and the cardiovascular consequences of long-duration spaceflight. We achieve this via non-invasive cardiovascular imaging (cardiac and vascular), molecular biomarkers of cardiovascular function, left ventricular mechanics, and integrative control of arterial vasodilator and constrictor responses.	<ul style="list-style-type: none"> ▪ Literature review ▪ Participate in data collection ▪ Interview oncologists ▪ Design educational materials for patients 	<ul style="list-style-type: none"> ▪ Letter of recommendation ▪ Enhanced résumé
S. Copp (KINES) scopp@ksu.edu	Examining the role played by skeletal muscle afferents in the reflex control of sympathetic nervous system activity and blood pressure during exercise in peripheral artery disease and heart failure.	<ul style="list-style-type: none"> ▪ Literature searches ▪ Assist in data collection and analysis ▪ General experimental preparation ▪ Laboratory maintenance. 	<ul style="list-style-type: none"> ▪ Letter of recommendation ▪ Enhanced résumé ▪ Presentation experience
S. Dietrich (FNDH) sdietrich@ksu.edu	Head, neck and spine injury prevention: Behavioral analysis of American football tackling technique.	<ul style="list-style-type: none"> ▪ Assist with parent/child education ▪ Assist with data collection (3D motion capture) ▪ Develop educational materials ▪ Training in TPA and SATT analysis ▪ Heads Up coaches certification ▪ Visits to youth football practice 	<ul style="list-style-type: none"> ▪ Research Development & Service ▪ Earn course credit ▪ Student Poster Presentation* ▪ Conference Poster* ▪ One-year commitment ▪ Journal Abstract ▪ Letter of recommendation
S. Dietrich (FNDH) sdietrich@ksu.edu	Modified Delphi study on American Football Tackling Technique	<ul style="list-style-type: none"> ▪ Assist with Literature Review ▪ (online) Survey development ▪ Develop Qualitative Interview ▪ Assist Focus Group/Member check ▪ Manuscript development ▪ Explore grant funding opportunities 	<ul style="list-style-type: none"> ▪ Research Development & Service ▪ Earn course credit ▪ Student Poster Presentation* ▪ Conference Poster* ▪ One-year commitment ▪ Journal Abstract ▪ Letter of recommendation

<p>S. Dietrich (FNDH) sdietrich@ksu.edu</p>	<p>Enriching the lives of veterans by connecting communities through physical and social and service events.</p>	<ul style="list-style-type: none"> ▪ Engage veterans in physical and social activities ▪ Organize, Promote, Participate/lead Yoga, Meditation, Functional Fitness, Running and Social activities ▪ Leadership development Teambuilding VSO activities 	<ul style="list-style-type: none"> ▪ Leadership Development & Service ▪ Teambuilding Adventures ▪ Student Poster Presentation ▪ Letter of recommendation ▪ Résumé Development and critique
<p>S. Dietrich (FNDH) sdietrich@ksu.edu</p>	<p>Investigating and understanding compassion fatigue among Athletic Training Professionals.</p>	<ul style="list-style-type: none"> ▪ Article Review and analysis ▪ (online) Survey development ▪ Assist w/Qualitative Interview data ▪ Assist Focus Group/Member check ▪ Manuscript development ▪ Explore grant funding opportunities 	<ul style="list-style-type: none"> ▪ Earn course credit ▪ Student Poster Presentation* ▪ Conference Poster* ▪ One-year commitment ▪ Journal Abstract/Article ▪ Letter of recommendation
<p>A. Ferraro (FSHS) aferraro@ksu.edu</p>	<p>Co-parenting Across Households - A data collection effort focused on parents in the state of Kansas who have shared minor children but are not in a committed relationship (e.g., divorced, remarried, nonmarital)</p> <p>Open Positions: 1-2 (Spring 2019) Prerequisite: HDFS 375 or equivalent, or currently enrolled</p>	<ul style="list-style-type: none"> ▪ Learn to conduct a thorough literature review ▪ Participate in a primary data collection effort using a community sample ▪ Clean and code data ▪ Prepare conference proposal(s) ▪ Prepare manuscript(s) for publication 	<ul style="list-style-type: none"> ▪ Leadership, service, and research experience ▪ Letter of recommendation ▪ Conference presentation ▪ Journal article
<p>A. Ferraro (FSHS) aferraro@ksu.edu</p>	<p>Together We Can/Strengthening Families - Program evaluation of the TWC and SF program efforts with K-State Extension</p> <p>Open Positions: 1 (Spring 2019)</p>	<ul style="list-style-type: none"> ▪ Work with cooperative extension on evaluation of programming ▪ Learn to conduct a thorough literature review ▪ Participate in a primary data collection with a community sample ▪ Clean and code data ▪ Prepare conference proposal(s) ▪ Prepare manuscript(s) for publication 	<ul style="list-style-type: none"> ▪ Leadership, service, and research experience ▪ Letter of recommendation ▪ Conference presentation ▪ Journal article

<p>J. Francois (FSHS) jfrancois@ksu.edu</p>	<p>Preschool Outdoor Plan, Physical Activity Social Skills Project (POPPAS)</p> <p>Open positions Fall/Spring: 9 in a variety of areas including child assessment, data collection, data analysis, data management, video coding</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Child assessment ▪ Data collection ▪ Data management ▪ Data analysis ▪ Video coding 	<ul style="list-style-type: none"> ▪ Leadership and research experience ▪ Early course credit ▪ Gain experience working with young children ▪ Conference presentation ▪ Journal article
<p>S. Haar (ATID) haar@ksu.edu</p>	<p>Natural Burial: Apparel and Textile Product Development</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Natural dye sampling ▪ Functional apparel design ▪ Data collection & analysis 	<ul style="list-style-type: none"> ▪ Design exhibited ▪ Design Process Experience ▪ Conference presentation
<p>S. Haar (ATID) haar@ksu.edu</p>	<p>Natural Dye Training with International Artisans</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Natural dye training ▪ Natural video lesson ▪ Training manual language translation to Hindi and Malayam 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Video
<p>J. Hanson (FNDH) jhanson2@ksu.edu</p>	<p>Health Menu Initiative for Children and Adolescents</p>	<ul style="list-style-type: none"> ▪ Visits to child care centers ▪ Recipe testing ▪ Data collection ▪ Parent/child education ▪ Develop educational materials 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Dietetics related experience ▪ Letter of recommendation ▪ Increased knowledge of child nutrition ▪ Enhanced résumé ▪ Course credit
<p>J. Hanson (FNDH) jhanson2@ksu.edu</p>	<p>A Tennis Based Program to Improve Diet Quality and Increasing Physical Activity</p>	<ul style="list-style-type: none"> ▪ Quickstart Tennis training provided ▪ Assist with weekly activities ▪ Parent/child education ▪ Develop educational materials ▪ Data collection 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Dietetics related experience ▪ Letter of recommendation ▪ Increased knowledge of child nutrition ▪ Enhanced résumé ▪ Course credit

<p>K. Heinrich (KINES) kmhphd@ksu.edu</p>	<p>HIFT for Obesity Prevention, Fitness and Health Promotion in Military Personnel (Army Training at High Intensity Study)</p> <p>Effects of Individualized Training Prescription using Heart Rate Variability on the Physiological and Psychological Outcomes of CrossFit</p> <p>An Epidemiological Examination of Reproductive Health in Female Law Enforcement Officers</p> <p>A Comparison of Muscular Strength, Power, and Endurance among College Fitness Classes</p> <p>Effects of a Brief Lifestyle Intervention for Office Workers</p> <p>Physical Activity Beliefs, Perceptions, and Assumptions Among Working Parents in the Rural Midwest</p> <p>Short Term Caffeine Effects in Intermittent CrossFit Exercise</p> <p>The Effects of Dietary Supplementation on Intermittent Critical Velocity and critical Rest Interval</p> <p>Effects of Sport and High-Intensity Functional Training on Adaptive Athletes' Quality of Life</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Data collection ▪ Data entry ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Earn course credit ▪ Conference presentation ▪ Journal article ▪ Letter of recommendation ▪ Enhanced résumé ▪ Science communication products (infographic, podcast, social media posts)
<p>M. Kaup (ATID) kaup@ksu.edu</p>	<p>Environmental Assessment of Person-centered care in PEAK 2.0 Homes</p>	<ul style="list-style-type: none"> ▪ Assisting with graphic design layouts for presentation of case-study data ▪ Literature Review 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article ▪ Résumé item

<p>T. Kidd (FNDH) martan@ksu.edu</p>	<p>Obesity Prevention/ Chronic Disease Prevention</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Data entry/cleaning ▪ Data analysis ▪ Develop nutrition education resources 	<ul style="list-style-type: none"> ▪ Journal article ▪ Conference presentation ▪ Increased understanding of scientific writing ▪ Enhanced résumé ▪ Increased understanding of factors influencing health
<p>J. Kwon (HM) jkwon@ksu.edu</p>	<p>Child Nutrition Program POS Use</p>	<ul style="list-style-type: none"> ▪ Content analysis ▪ Online survey development 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
<p>M. LeHew (ATID) lehew@ksu.edu</p>	<p>Sustainable Apparel Consumption and Well-Being</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Project design ▪ Data collection ▪ Data analysis ▪ Write journal articles ▪ Blog content development 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article ▪ Blog
<p>M. Markham mmarkham@ksu.edu M. Toews mltoews@ksu.edu K. Morgan kmmorgan@ksu.edu (FSHS)</p>	<p>Undergraduate Research in HDFS</p>	<ul style="list-style-type: none"> ▪ Conduct interviews ▪ Assist in coding interview data ▪ Assist in writing conference proposals and journal articles 	<ul style="list-style-type: none"> ▪ Research and scientific writing experience ▪ Conference presentation ▪ Journal article
<p>M. Markham mmarkham@ksu.edu (FSHS)</p>	<p>Young Adult Relationship with Grandparents and Siblings</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Participant recruitment ▪ Assist in writing conference proposals and journal articles 	<ul style="list-style-type: none"> ▪ Research and scientific writing experience ▪ Conference presentation ▪ Journal article
<p>K. Morgan (FSHS) kmmorgan@ksu.edu</p>	<p>Projects related to undergraduate teaching and learning</p>	<ul style="list-style-type: none"> ▪ Activities will vary depending on the project and student interest 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article

<p>D. Poole T. Musch (KINES / A&P) poole@vet.ksu.edu</p>	<p>Investigating the oxygen transport pathway in health and disease. Various projects related to understanding exercise intolerance in heart failure and diabetes.</p>	<ul style="list-style-type: none"> ▪ Assisting with all aspects of studies <ul style="list-style-type: none"> □ animal husbandry □ data collection □ data analysis <p>as time commitment and experience allow.</p>	<ul style="list-style-type: none"> ▪ Research and scientific writing experience ▪ Contribute to decreasing the burden of disease ▪ Letter of recommendation ▪ Consideration for travel to scientific meetings, presentation of research and authorship on scientific publications as contribution warrants.
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>The effects of resistant starch and puffed wheat starch on postprandial glucose and insulin.</p>	<ul style="list-style-type: none"> ▪ Assist with data collection ▪ Blood work ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Research and scientific writing ▪ Conference presentation ▪ Journal article
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>Dietary effects on impulsive choice: The role of physiological moderators and mediators</p>	<ul style="list-style-type: none"> ▪ Assist with data collection ▪ Blood work ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Research and scientific writing ▪ Conference presentation ▪ Journal article
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>Effects of sugar-sweetened beverage (SSB) consumption on insulin sensitivity, pulmonary function, and metabolic syndrome</p>	<ul style="list-style-type: none"> ▪ Assist with data collection ▪ Accelerometry ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Research and scientific writing ▪ Conference presentation ▪ Journal article
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>The effects of vitamin C supplementation on exercise-induced bronchoconstriction (EIB)</p>	<ul style="list-style-type: none"> ▪ Assist with data collection ▪ blood work ▪ pulmonary function ▪ exercise testing ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Research and scientific writing ▪ Conference presentation ▪ Journal article
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>Smart Fit Girls</p>	<ul style="list-style-type: none"> ▪ Co-coaching middle school aged girls in strength training ▪ Data collection ▪ Data analysis 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Publication ▪ Enhanced résumé
<p>S. Rosenkranz (FNDH) sararose@ksu.edu</p>	<p>Isagenix</p>	<ul style="list-style-type: none"> ▪ Blood glucose testing ▪ Survey administration ▪ DEXA scans 	<ul style="list-style-type: none"> ▪ Enhanced résumé ▪ Hands-on research experience

<p>S. and R. Rosenkranz (FNDH) sararose@ksu.edu ricardo@ksu.edu</p>	<p>Enhanced Health Promotion in Girl Scouts through Video-Based Leader Wellness Training</p>	<ul style="list-style-type: none"> ▪ Attend Girl Scout troop meetings to assist with data collection ▪ Accelerometry ▪ Direct observation of meetings ▪ Interact with troop leaders for health promotion ▪ Assist with online/video based wellness training program development ▪ Survey data analysis ▪ Scientific writing 	<ul style="list-style-type: none"> ▪ Research and scientific writing experience ▪ Conference presentation ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Suicide ideation among Gulf War veterans, First Persian Gulf War</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Write journal articles 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Re-evaluation of Patterson & Redding (1996) literature review</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Assess impact of P&R ▪ Write journal article 	<ul style="list-style-type: none"> ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Stress, Martial Satisfaction, and Work-Family conflict among military officers at Fort Leavenworth</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Write journal articles 	<ul style="list-style-type: none"> ▪ Journal articles
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Family developmental patterns among children of various family types</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Write journal articles 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Issues in military research (commentary)</p>	<ul style="list-style-type: none"> ▪ Search for appropriate journals ▪ Review literature ▪ Edit manuscript 	<ul style="list-style-type: none"> ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Compare children's emotional outcomes across male and female same-sex parent families from NHIS data</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Write journal articles 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
<p>W. Schumm (FSHS) schumm@ksu.edu</p>	<p>Response rates among rural residents in Kansas</p>	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Edit journal article 	<ul style="list-style-type: none"> ▪ Journal article

W. Schumm (FSHS) schumm@ksu.edu	Assess self-reported rates of childhood sexual abuse across different types of families of origin	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze data ▪ Write journal articles 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
M. Syme (FSHS) msyme@ksu.edu	Sexual Well-Being and Aging	<ul style="list-style-type: none"> ▪ Review literature ▪ Project development ▪ Data analysis ▪ Academic writing 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
M. Toews (FSHS) mltoews@ksu.edu	Healthy Adolescent and Adult Relationships Research Team (HAARRT) <ul style="list-style-type: none"> ○ Adolescent parents' relationships ○ Teen dating violence ○ Young adults' sexual identity and behaviors 	<ul style="list-style-type: none"> ▪ Review literature ▪ Analyze quantitative data ▪ Code qualitative data ▪ Academic writing 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
A. Venum (FSHS) avenum@ksu.edu	Relevate (A mobile relationship education resource for emerging adults) https://www.facebook.com/MyRelevate	<ul style="list-style-type: none"> ▪ Marketing: planning and executing events (both on-campus and via social media) to promote healthy relationships ▪ Content Development: making relationship research accessible to emerging adults by developing research-informed infographics, animations, videos, articles, or graphics to use in social media on healthy romantic relationships ▪ Formative Research (Beta testing) 	<ul style="list-style-type: none"> ▪ Leadership, service, & research to put on your CV ▪ Papers and conference presentations ▪ Media experience ▪ Networking with relationship experts around the country ▪ Building local networks on campus and in the community
W. Wang (FNDH) Wwang@ksu.edu	Determining the Bioavailability of Sorghum Phenolic Compounds	<ul style="list-style-type: none"> ▪ Extraction of phenolic compounds from various sorghum accessions ▪ Cell culture maintenance and treatment 	<ul style="list-style-type: none"> ▪ Conference presentation ▪ Journal article
B. Wiles (FSHS) bwiles@ksu.edu	Rural Families – Access to Quality, Affordable Child Care	<ul style="list-style-type: none"> ▪ Coding data ▪ Assist with manuscript preparation 	<ul style="list-style-type: none"> ▪ Research experience ▪ Conference presentation ▪ Journal article