## RSCAD Opportunities for Undergraduate Students

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Project</th>
<th>Tasks</th>
<th>Possible Outcomes</th>
</tr>
</thead>
</table>
| 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.  
| Literature review  
Participate in data collection  
Interview oncologists  
Design educational materials for patients | 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.  
| Literature searches  
Assist in data collection and analysis  
General experimental preparation  
Laboratory maintenance. | 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.  
| 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 | 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  
| Assist with Literature Review  
(online) Survey development  
Develop Qualitative Interview  
Assist Focus Group/Member check  
Manuscript development  
Explore grant funding opportunities | Research Development & Service  
Earn course credit  
Student Poster Presentation*  
Conference Poster*  
One-year commitment  
Journal Abstract  
Letter of recommendation |
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Duties</th>
<th>Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. Dietrich</td>
<td>Enriching the lives of veterans by connecting communities through</td>
<td>- Engage veterans in physical and social activities</td>
<td>- Leadership Development &amp; Service</td>
</tr>
<tr>
<td>(FNDH)</td>
<td>physical and social and service events.</td>
<td>- Organize, Promote, Participate/lead Yoga, Meditation, Functional</td>
<td>- Teambuilding Adventures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fitness, Running and Social activities</td>
<td>- Student Poster Presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Leadership development</td>
<td>- Letter of recommendation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Teambuilding VSO activities</td>
<td>- Résumé Development and critique</td>
</tr>
<tr>
<td></td>
<td>Investigating and understanding compassion fatigue among Athletic</td>
<td>- Article Review and analysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Training Professionals.</td>
<td>- (online) Survey development</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Assist w/Qualitative Interview data</td>
<td></td>
</tr>
<tr>
<td>S. Dietrich</td>
<td></td>
<td>- Assist Focus Group/Member check</td>
<td></td>
</tr>
<tr>
<td>(FNDH)</td>
<td></td>
<td>- Manuscript development</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Explore grant funding opportunities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-parenting Across Households - A data collection effort focused</td>
<td>- Leadership Development &amp; Service</td>
<td></td>
</tr>
<tr>
<td></td>
<td>on parents in the state of Kansas who have shared minor children</td>
<td>- Teambuilding Adventures</td>
<td></td>
</tr>
<tr>
<td></td>
<td>but are not in a committed relationship (e.g., divorced, remarried,</td>
<td>- Student Poster Presentation*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>nonmarital)</td>
<td>- Conference Poster*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Open Positions: 1-2 (Spring 2019)</td>
<td>- One-year commitment</td>
<td></td>
</tr>
<tr>
<td>A. Ferraro</td>
<td></td>
<td>- Journal Abstract/Article</td>
<td></td>
</tr>
<tr>
<td>(FSHS)</td>
<td></td>
<td>- Leadership, service, and research experience</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Together We Can/Strengthening Families - Program evaluation of the</td>
<td>- Earn course credit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWC and SF program efforts with K-State Extension</td>
<td>- Letter of recommendation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Conference presentation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Journal article</td>
<td></td>
</tr>
<tr>
<td>A. Ferraro</td>
<td></td>
<td>- Leadership, service, and research experience</td>
<td></td>
</tr>
<tr>
<td>(FSHS)</td>
<td></td>
<td>- Letter of recommendation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Together We Can/Strengthening Families - Program evaluation of the</td>
<td>- Conference presentation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWC and SF program efforts with K-State Extension</td>
<td>- Journal article</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Leadership, service, and research experience</td>
<td></td>
</tr>
</tbody>
</table>
| J. Francois  
| FSHS  
| jfrancois@ksu.edu | Preschool Outdoor Plan, Physical Activity Social Skills Project (POPPAS)  
| Open positions Fall/Spring: 9 in a variety of areas including child assessment, data collection, data analysis, data management, video coding | Review literature  
| Child assessment  
| Data collection  
| Data management  
| Data analysis  
| Video coding | Leadership and research experience  
| Early course credit  
| Gain experience working with young children  
| Conference presentation  
| Journal article |
| S. Haar  
| ATID  
| haar@ksu.edu | Natural Burial: Apparel and Textile Product Development | Review literature  
| Natural dye sampling  
| Functional apparel design  
| Data collection & analysis | Design exhibited  
| Design Process Experience  
| Conference presentation |
| S. Haar  
| ATID  
| haar@ksu.edu | Natural Dye Training with International Artisans | Review literature  
| Natural dye training  
| Natural video lesson  
| Training manual language translation to Hindi and Malayam | Conference presentation  
| Video |
| J. Hanson  
| FNDH  
| jhanson2@ksu.edu | Health Menu Initiative for Children and Adolescents | Visits to child care centers  
| Recipe testing  
| Data collection  
| Parent/child education  
| Develop educational materials | Conference presentation  
| Dietetics related experience  
| Letter of recommendation  
| Increased knowledge of child nutrition  
| Enhanced résumé  
| Course credit |
| J. Hanson  
| FNDH  
| jhanson2@ksu.edu | A Tennis Based Program to Improve Diet Quality and Increasing Physical Activity | Quickstart Tennis training provided  
| Assist with weekly activities  
| Parent/child education  
| Develop educational materials  
| Data collection | Conference presentation  
| Dietetics related experience  
| Letter of recommendation  
| Increased knowledge of child nutrition  
| Enhanced résumé  
| Course credit |
| K. Heinrich (KINES) | HIFT for Obesity Prevention, Fitness and Health Promotion in Military Personnel (Army Training at High Intensity Study)  
Effects of Individualized Training Prescription using Heart Rate Variability on the Physiological and Psychological Outcomes of CrossFit  
An Epidemiological Examination of Reproductive Health in Female Law Enforcement Officers  
A Comparison of Muscular Strength, Power, and Endurance among College Fitness Classes  
Effects of a Brief Lifestyle Intervention for Office Workers  
Physical Activity Beliefs, Perceptions, and Assumptions Among Working Parents in the Rural Midwest  
Short Term Caffeine Effects in Intermittent CrossFit Exercise  
The Effects of Dietary Supplementation on Intermittent Critical Velocity and critical Rest Interval  
Effects of Sport and High-Intensity Functional Training on Adaptive Athletes’ Quality of Life | • Review literature  
• Data collection  
• Data entry  
• Data analysis | • Earn course credit  
• Conference presentation  
• Journal article  
• Letter of recommendation  
• Enhanced résumé  
• Science communication products (infographic, podcast, social media posts) |
| --- | --- | --- |
| M. Kaup (ATID) | Environmental Assessment of Person-centered care in PEAK 2.0 Homes | • Assisting with graphic design layouts for presentation of case-study data  
• Literature Review | • Conference presentation  
• Journal article  
• Résumé item |
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Research Area</th>
<th>Tasks</th>
<th>Publications</th>
</tr>
</thead>
</table>
| T. Kidd (FNDH)        | martan@ksu.edu       | Obesity Prevention/Chronic Disease Prevention   | - Review literature  
- Data entry/cleaning  
- Data analysis  
- Develop nutrition education resources | - Journal article  
- Conference presentation  
- Increased understanding of scientific writing  
- Enhanced résumé  
- Increased understanding of factors influencing health |
| J. Kwon (HM)          | jkwon@ksu.edu        | Child Nutrition Program POS Use                  | - Content analysis  
- Online survey development                                            | - Conference presentation  
- Journal article                                      |
| M. LeHew (ATID)       | lehew@ksu.edu        | Sustainable Apparel Consumption and Well-Being  | - Review literature  
- Project design  
- Data collection  
- Data analysis  
- Write journal articles  
- Blog content development                                   | - Conference presentation  
- Journal article  
- Blog                                                      |
| M. Markham M. Toews K. Morgan (FSHS) | mmarkham@ksu.edu | Undergraduate Research in HDFS                | - Conduct interviews  
- Assist in coding interview data  
- Assist in writing conference proposals and journal articles         | - Research and scientific writing experience  
- Conference presentation  
- Journal article                                       |
| M. Markham M. Toews K. Morgan (FSHS) | mmarkham@ksu.edu | Young Adult Relationship with Grandparents and Siblings | - Review literature  
- Participant recruitment  
- Assist in writing conference proposals and journal articles         | - Research and scientific writing experience  
- Conference presentation  
- Journal article                                       |
| K. Morgan (FSHS)      | kmmorgan@ksu.edu     | Projects related to undergraduate teaching and learning | - Activities will vary depending on the project and student interest | - Conference presentation  
- Journal article                                      |
<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Responsibilities</th>
<th>Additional Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Poole T. Musch</td>
<td>Investigating the oxygen transport pathway in health and disease.</td>
<td>Assisting with all aspects of studies</td>
<td>Research and scientific writing experience</td>
</tr>
<tr>
<td>(KINES / A&amp;P)</td>
<td>Various projects related to understanding exercise intolerance in heart failure and diabetes.</td>
<td>animal husbandry data collection data analysis as time commitment and experience allow.</td>
<td>Contribute to decreasing the burden of disease</td>
</tr>
<tr>
<td><a href="mailto:poole@vet.ksu.edu">poole@vet.ksu.edu</a></td>
<td></td>
<td></td>
<td>Letter of recommendation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Consideration for travel to scientific meetings, presentation of research and authorship on scientific publications as contribution warrants.</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>The effects of resistant starch and puffed wheat starch on postprandial glucose and insulin.</td>
<td>Assist with data collection Blood work Data analysis</td>
<td>Research and scientific writing</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Conference presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Journal article</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>Dietary effects on impulsive choice: The role of physiological moderators and mediators</td>
<td>Assist with data collection Blood work Data analysis</td>
<td>Research and scientific writing</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Conference presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Journal article</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>Effects of sugar-sweetened beverage (SSB) consumption on insulin sensitivity, pulmonary function, and metabolic syndrome</td>
<td>Assist with data collection Accelerometry Data analysis</td>
<td>Research and scientific writing</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Conference presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Journal article</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>The effects of vitamin C supplementation on exercise-induced bronchoconstriction (EIB)</td>
<td>Assist with data collection blood work pulmonary function exercise testing Data analysis</td>
<td>Research and scientific writing</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Conference presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Journal article</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>Smart Fit Girls</td>
<td>Co-coaching middle school aged girls in strength training Data collection Data analysis</td>
<td>Conference presentation</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Publication</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Enhanced résumé</td>
</tr>
<tr>
<td>S. Rosenkranz</td>
<td>Isagenix</td>
<td>Blood glucose testing Survey administration DEXA scans</td>
<td>Enhanced résumé</td>
</tr>
<tr>
<td>(FNDH) <a href="mailto:sararose@ksu.edu">sararose@ksu.edu</a></td>
<td></td>
<td></td>
<td>Hands-on research experience</td>
</tr>
</tbody>
</table>
| S. and R. Rosenkranz (FNDH) sararose@ksu.edu ricardo@ksu.edu | Enhanced Health Promotion in Girl Scouts through Video-Based Leader Wellness Training | - 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 | - Research and scientific writing experience  
- Conference presentation  
- Journal article |
|---|---|---|---|
| W. Schumm (FHS) schumm@ksu.edu | Suicide ideation among Gulf War veterans, First Persian Gulf War | - Review literature  
- Analyze data  
- Write journal articles | - Conference presentation  
- Journal article |
| W. Schumm (FHS) schumm@ksu.edu | Re-evaluation of Patterson & Redding (1996) literature review | - Review literature  
- Assess impact of P&R  
- Write journal article |  |
| W. Schumm (FHS) schumm@ksu.edu | Stress, Martial Satisfaction, and Work-Family conflict among military officers at Fort Leavenworth | - Review literature  
- Analyze data  
- Write journal articles | - Journal articles |
| W. Schumm (FHS) schumm@ksu.edu | Family developmental patterns among children of various family types | - Review literature  
- Analyze data  
- Write journal articles | - Conference presentation  
- Journal article |
| W. Schumm (FHS) schumm@ksu.edu | Issues in military research (commentary) | - Search for appropriate journals  
- Review literature  
- Edit manuscript | - Journal article |
| W. Schumm (FHS) schumm@ksu.edu | Compare children’s emotional outcomes across male and female same-sex parent families from NHIS data | - Review literature  
- Analyze data  
- Write journal articles | - Conference presentation  
- Journal article |
| W. Schumm (FHS) schumm@ksu.edu | Response rates among rural residents in Kansas | - Review literature  
- Analyze data  
- Edit journal article | - Journal article |
<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Project/Research Area</th>
<th>Tasks</th>
<th>Events/Outputs</th>
</tr>
</thead>
</table>
| W. Schumm (FSHS)      | schumm@ksu.edu               | Assess self-reported rates of childhood sexual abuse across different types of families of origin | - Review literature  
- Analyze data  
- Write journal articles | - Conference presentation  
- Journal article |
| M. Syme (FSHS)        | msyme@ksu.edu                | Sexual Well-Being and Aging                                                           | - Review literature  
- Project development  
- Data analysis  
- Academic writing | - Conference presentation  
- Journal article |
| M. Toews (FSHS)       | mltoews@ksu.edu              | Healthy Adolescent and Adult Relationships Research Team (HAARRT)  
- Adolescent parents’ relationships  
- Teen dating violence  
- Young adults’ sexual identity and behaviors | - Review literature  
- Analyze quantitative data  
- Code qualitative data  
- Academic writing | - Conference presentation  
- Journal article |
| A. Vennum (FSHS)      | avennum@ksu.edu              | Relevate (A mobile relationship education resource for emerging adults)  
https://www.facebook.com/MyRelevate | - 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) | - 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  
- Extraction of phenolic compounds from various sorghum accessions  
- Cell culture maintenance and treatment | - Conference presentation  
- Journal article |
| B. Wiles (FSHS)       | bwiles@ksu.edu               | Rural Families – Access to Quality, Affordable Child Care  
- Coding data  
- Assist with manuscript preparation | - Research experience  
- Conference presentation  
- Journal article |

Updated: 1/2019