

# GEORGE HAYES CROCKER

School of Kinesiology  
California State University, Los Angeles  
5151 State University Drive  
Los Angeles, CA 90032  
Email: [gcrocke@calstatela.edu](mailto:gcrocke@calstatela.edu)  
[Lab website](#) | [LinkedIn](#)

## EDUCATION

- Ph.D. Molecular, Cellular & Integrative Physiology**, University of California, Davis, 2014  
*Dissertation: Combined effects of hypoxia, hypercapnia, carbon monoxide and acute lung injury on oxygen transport and aerobic capacity*
- M.S. Exercise Science**, University of California, Davis, 2010  
*Thesis: Effects of hypoxia, hyperoxia, hypercapnia and elevated carboxyhemoglobin concentration on VO<sub>2</sub>max and exercise capacity in goats*
- B.S. Biology**, University of California, Santa Cruz, 2005

## CAREER HISTORY

- Associate Professor**, School of Kinesiology, California State University, Los Angeles, August 2022-present
- Graduate Coordinator**, School of Kinesiology, California State University, Los Angeles, August 2022-present
- Director**, Swim Performance Lab, School of Kinesiology, California State University, Los Angeles, 2016-present
- Assistant Professor**, School of Kinesiology, Nutrition & Food Science, California State University, Los Angeles, 2016-2022
- Lecturer & Researcher**, Department of Kinesiology, College of Education, Health & Human Services, California State University, San Marcos, 2014-2016
- Graduate Student Researcher**, Equine Athletic Performance Lab (PI: James H. Jones), Department of Surgical & Radiological Sciences, School of Veterinary Medicine, University of California, Davis, 2007-13
- Teaching Assistant**, Department of Neurobiology, Physiology & Behavior, College of Biological Sciences, University of California, Davis, 2006-07, 2010, 2012-13
- Graduate Student Researcher**, Division of Cardiovascular Medicine (PI: Charles L. Stebbins), School of Medicine, University of California, Davis, 2007
- Ocean Lifeguard/Emergency Medical Technician**, Del Mar, CA, 2001-06, 2014-15
- Naturalist**, InspireOut Outdoor Science School, Sacramento, CA 2013-present
- Swim Coach**, Davis Aquatic Masters Swim Team, Davis, CA, 2007-09
- Swim Coach**, Rancho San Dieguito Swim Team & Solana Beach Swim Masters, Solana Beach, CA, 2006
- Intern**, Marine Mammal Acoustics Lab (PIs: John A. Hildebrand & Sean M. Wiggins), Scripps Institution of Oceanography, University of California, San Diego, Summer 2005
- Intern**, Marine Microbial Biology Lab (PI: Jonathan P. Zehr), University of California, Santa Cruz, Spring 2005

## COURSES TAUGHT

### Instructor of Record

#### Cal State LA (Fall 2016 – Present)

##### *Undergraduate level*

- KIN 3600 – Physiology of Exercise & Physical Activity** (Fall 2018; Spring & Fall 2019; Spring & Summer 2021)
- KIN 4600 – Principles of Physical Fitness Assessment** (Fall 2016; Spring & Fall 2017; Spring, Summer & Fall 2018; Spring, Summer & Fall 2019; Spring & Fall 2020; Spring & Fall 2021)
- KIN 4610 – Advanced Exercise Physiology** (Spring 2018, Spring 2022)
- KIN 4960 – Capstone Seminar in Exercise & Human Performance** (Spring 2022)

##### *Graduate level*

- KIN 5040 – Research Design in Kinesiology** (Fall 2022)

6. **KIN 5200 – Graduate Seminar in Kinesiology** (Spring & Fall 2018; Spring & Fall 2019; Spring & Fall 2020; Spring & Fall 2021; Spring & Fall 2022)
7. **KIN 5600 – Cardiorespiratory Aspects of Human Performance** (Fall 2021; Fall 2022)

#### **Cal State San Marcos (Spring 2014 – Summer 2016)**

##### *Undergraduate level*

8. **KIN 202 – Introduction to Physical Education and Kinesiology** (Fall 2014)
9. **KIN 303 – Statistics and Research Methods** (Spring, Summer & Fall 2015; Spring & Summer 2016)
10. **KIN 326 – Introductory Exercise Physiology** (Spring 2014; Spring 2015; Spring 2016)
11. **KIN 403 – Measurement and Evaluation in Kinesiology** (Spring, Summer & Fall 2014)
12. **KIN 426 – Exercise Physiology for Special Populations** (Fall 2015; Spring 2016)

##### *Graduate level*

13. **MSW 650 – Advanced Research Methods in Social Work** (Summer 2015)

#### **Laboratory Instructor**

##### **Cal State LA (Fall 2016 – present)**

1. **KIN 4580L – Environmental Exercise Physiology** (Spring 2022)
2. **KIN 4600L – Principles of Physical Fitness Assessment Lab** (Fall 2016; Spring & Fall 2017; Summer 2018; Summer & Fall 2019; Fall 2020)
3. **KIN 5600L – Cardiorespiratory Aspects of Human Performance Lab** (Fall 2021)

##### **Cal State San Marcos (Spring 2014 – Summer 2016)**

4. **KIN 326L – Introductory Exercise Physiology Lab** (Spring 2014; Spring 2015; Spring 2016)

##### **UC Davis (Fall 2006 – Fall 2013)**

5. **EXB 104L – Exercise Biology Lab** (Spring 2010; Spring 2013)
6. **EXB 112L – Clinical Exercise Physiology Lab** (Winter 2007; Winter 2013)
7. **NPB 101L – Systemic Physiology Lab** (Fall 2012)

#### **Teaching Assistant**

##### **UC Davis (Fall 2006 – Fall 2013)**

1. **EXB 10 – Exercise & Fitness: Principles and Practice** (Fall 2006; Fall 2013)
2. **EXB 116 – Exercise Nutrition** (Spring 2007)

#### **GRADUATE STUDENTS MENTORED**

##### *Thesis/project advisor*

1. **Alejandro Villalobos** (2021) - *The effects of listening to music and verbal feedback on swimming performance*
2. **Veronica Pinedo** (2020) - *Factors that predict swimming economy in adult, recreational swimmers*
3. **Merry Bestard** (2020) - *The effects of low- and high-carbohydrate diets on swimming economy in trained swimmers*
4. **Daniel Monarrez** (2020) - *Comparison of flume and treadmill testing for maximal aerobic capacity in trained swimmers*
5. **Samuel Bridges** (2019) - *Improvement in swimming economy from using a pull buoy*

##### *Thesis/project committee member – Cal State LA unless otherwise noted*

6. **Irvin Jimenez** (2022) – *The importance of integrating high-velocity resistance training into an exercise program for untrained older adults*
7. **Boram Lim** (2022; University of Nevada, Las Vegas, PhD Interdisciplinary Health Science) - *Investigation of swimming physiology and kinematics while wearing different triathlon wetsuits during submaximal front-crawl swimming*
8. **Elena McCracken** (2021) – *Improving total knee replacement recovery through therapeutic neuroscience education*
9. **Zachary Mitsui** (2020) – *Movement analysis: Literature review of current methods and method selection for the practicing athletic trainer*
10. **Alyssa Vaniman** (2020) - *Perceived effectiveness of return to learn guidelines in collegiate athletes following concussions*
11. **Aaron Mathews** (2020) – *The acute effects of high-intensity interval training with a sauna suit on caloric expenditure*

12. **Monder Taleb** (2020) – *Hydration status and fluid intake for collegiate soccer players*
13. **Hai Tran** (2020) – *Brain oxygenation in response to virtual reality and exercise in aging*
14. **Scott Henson** (2019; Point Loma Nazarene University, MA Education) - *Student perceptions of cell phone use*
15. **Lisa Le** (2019) - *Effectiveness of circuit resistance training using elastic bands in individuals with spinal cord injury compared to able-bodied*
16. **Arpie Haroutinian** (2019) - *The effect of heat acclimation and permissive dehydration on intracellular HSP-72 and exercise performance in a temperate environment*
17. **Joshua Hopkins** (2019) - *Digital application applied in administration and athletic director scheduling*
18. **Marney Holley** (2017) - *Women's physique division: A guide to advanced bodybuilding competition preparation*

## HONORS AND AWARDS

1. **Outstanding Teaching Performance**, School of Kinesiology, Nutrition & Food Science, Spring 2020
2. **First Place**, Molecular, Cellular & Integrative Physiology Colloquium Poster Competition, Fall 2013
3. **First Place**, Molecular, Cellular & Integrative Physiology Colloquium Poster Competition, Spring 2011
4. **Lifeguard of the Year**, City of Del Mar, 2006
5. **Scholar Athlete Award**, University of California, Santa Cruz 2001-02, 02-03, 03-04, 04-05
6. **Team Captain**, University of California, Santa Cruz Swim Team 2003-04, 04-05
7. **Ted Bramble/Stephanie Miller Award (Motivation and Work Ethic Award)**, University of California, Santa Cruz Swim Team 2001-02

## PUBLICATIONS – ([Google Scholar Profile](#); \* denotes student co-author)

1. ARD Matthews\*, TA Astorino, **GH Crocker** & AC Sheard. Acute Effects of High-Intensity Interval Exercise While Wearing a Sauna Suit on Energy Expenditure and Excess Post-exercise Oxygen Consumption. *J Strength Cond Res – ahead of print*. <https://doi.org/10.1519/JSC.0000000000003834>
2. J Rothschild, AC Sheard & **GH Crocker** (2022). Influence of a 2-km Swim on the Cycling Power-Duration Relationship in Triathletes. *J Strength Cond Res*, 36(5), 1431-1436. <https://doi.org/10.1519/JSC.0000000000003623>
3. **GH Crocker**, JF Moon\*, JA Nessler and SC Newcomer (2021). Energetics of swimming with hand paddles of different surface areas. *J Strength Cond Res*, 35(1), 205-211. <https://doi.org/10.1519/JSC.0000000000002637>
4. MA Bestard\*, J Rothschild & **GH Crocker** (2020). Effect of low- and high-carbohydrate diets on swimming economy: a crossover study. *J Int Soc Sports Nutr*, 17(64), 1-7. <https://doi.org/10.1186/s12970-020-00392-3>
5. J Rothschild & **GH Crocker** (2019). Effects of a 2-km swim on markers of cycling performance in elite age-group triathletes. *Sports*, 7(4), 1-12. <https://doi.org/10.3390/sports7040082>
6. **GH Crocker**, J Kwon, PH Kass and JH Jones (2017). Ventilatory response to carbon monoxide during exercise in hypoxia and hypercapnia. *Respir Physiol Neurobiol*, 246, 86-91. <https://doi.org/10.1016/j.resp.2017.08.012>
7. DS Asakawa, **GH Crocker**, A Schmaltz\* and DL Jindrich (2017). Fingertip forces and completion time for index finger and thumb touchscreen gestures. *Journal of Electromyography and Kinesiology*, 34, 6-13. <https://doi.org/10.1016/j.jelekin.2017.02.007>
8. V Ekmeçic\*, N Jia\*, TG Cleveland\*, M Saulino\*, JA Nessler, **GH Crocker** and SC Newcomer (2017). Increasing surfboard volume reduces energy expenditure during paddling. *Ergonomics*, 60(9), 1255-1260. <https://doi.org/10.1080/00140139.2016.1261188>
9. CL LaLanne\*, MS Cannady\*, JF Moon\*, DL Taylor\*, JA Nessler, **GH Crocker** and SC Newcomer (2017). Characterization of Activity and Cardiovascular Responses During Surfing in Recreational Male Surfers Between the Ages of 18 and 75 Years Old. *Journal of Aging and Physical Activity*, 25(2), 182-188. <https://doi.org/10.1123/japa.2016-0041>
10. **GH Crocker** and JH Jones (2016). Interactive effects of hypoxia, carbon monoxide and acute lung injury on oxygen transport and aerobic capacity. *Respir Physiol Neurobiol*, 225, 31-37. <https://doi.org/10.1016/j.resp.2016.01.005>
11. **GH Crocker** and JH Jones (2014). Effects of oleic acid-induced lung injury on oxygen transport and aerobic capacity. *Respir Physiol Neurobiol*, 196, 43-49. <https://doi.org/10.1016/j.resp.2014.02.012>
12. **GH Crocker** and JH Jones (2014). Hypoxia and CO alter O<sub>2</sub> extraction but not peripheral diffusing capacity during maximal aerobic exercise. *Eur J Appl Physiol*, 114, 837-845. <https://doi.org/10.1007/s00421-013-2799-0>
13. **GH Crocker**, B Toth and JH Jones (2013). Combined effects of altered inspired oxygen, carbon dioxide and carbon monoxide on oxygen transport and aerobic capacity. *J Appl Physiol*, 115(5), 643–652. <https://doi.org/10.1152/jappphysiol.01407.2012>

**MANUSCRIPTS IN REVIEW**

1. SW Bridges, D Monarrez, CA Simmons & **GH Crocker**. Improvement in swimming economy from using a pull buoy. *Frontiers in Sports & Active Living*. REJECTED
2. DJ Monarrez, LD Dominguez, VA Pinedo, CA Simmons, AC Sheard & **GH Crocker**. Maximal aerobic capacity in swimmers measured while running than swimming. *Frontiers in Sports & Active Living*. REJECTED

**GRANTS AWARDED**

1. Cal State LA – **Research, Scholarship and Creative Activities (RSCA) mini-grant**  
Purpose: Establish a swimming research program on the Cal State LA campus  
Role: Principal Investigator  
Award: \$5,000
2. CSU San Marcos – **Cougars Affordable Learning Materials (CALM) grant**  
Purpose: Redevelopment of **KINE 202 – Introduction to Kinesiology** to reduce costs of learning materials  
Role: Project lead  
Co-awardees: Tony Ordas, Jeff Nessler & Todd Astorino  
Award: \$3,000

**PROFESSIONAL SERVICE** – number of reviews in parentheses

1. Ad hoc reviewer *International Journal of Environmental Research and Public Health* (5)
2. Ad hoc reviewer *Journal of Strength & Conditioning Research* (3)
3. Ad hoc reviewer *Social Sciences* (1)
4. Ad hoc reviewer *Scientific Reports* (1)
5. Ad hoc reviewer *International Journal of Sports Physiology & Performance* (1)
6. Ad hoc reviewer *International Journal of Sports Medicine* (1)
7. Ad hoc reviewer *Sports Engineering* (1)
8. Ad hoc reviewer *Sustainability* (1)
9. Ad hoc reviewer *Sports* (1)
10. Ad hoc reviewer *BMC Sports Science, Medicine and Rehabilitation* (1)
11. Ad hoc reviewer *Sports Medicine* (1)

**DEPARTMENT, COLLEGE & UNIVERSITY SERVICE**Department of Kinesiology (KIN)

1. Faculty-Led Curriculum Redesign (Cohort 3), Kinesiology & Exercise Science BS degrees– 2021-2022
2. KIN Graduate Program Coordinator – 2022-23
3. KIN Assessment Coordinator – 2017-18; 2018-19; 2019-20; 2020-21; 2021-22
4. KIN RTP “A2” Committee – 2022-23
5. KIN RTP “B” Committee – 2018-19; 2019-20 (chair); 2020-21; 2022-2023
6. KIN Graduate Program Ad Hoc Committee – 2019-20; 2020-21; 2022-23 (chair)
7. KIN Self-Study Report Committee – 2017-18
8. KIN Scholarship Committee – 2016-17; 2017-18; 2020-21
9. KIN Graduate Admissions Committee – 2017-18; 2018-19; 2019-20; 2020-21; 2021-22; 2022-23
10. KIN Curriculum Committee – 2019-20, 2020-21, 2021-22

Rongxiang Xu College of Health & Human Services (HHS)

11. HHS RTP “B” Committee – 2022-23
12. HHS Emeritus Faculty Review Committee – 2021-22, 2022-23
13. HHS Program Assessment Committee – 2020-21
14. HHS Dean’s Retention, Tenure & Promotion Taskforce: Teaching Subcommittee – 2017-18; 2018-19
15. HHS Undergraduate Curriculum Committee – 2017-18
16. HHS Graduate Curriculum Committee – 2018-19; 2019-20; 2021-22
17. HHS Banner Carrier Escort – 2017 Commencement

18. HHS Banner Carrier – 2018 & 2019 Commencements

California State University, Los Angeles (Cal State LA)

19. Cal State LA Intercollegiate Athletics Board – 4-year term (2018-2022)
20. Cal State LA RSCA Student research competition judge (2019 – poster, 2020 – oral, 2021 – volunteered)
21. Cal State LA Howard Hughes Medical Institute - Inclusive Excellence and Equity Fellows Program

## CERTIFICATIONS

1. Cal State LA trainings & certifications
  - a. Center for Effective Teaching & Learning (CETL) Alt-instruction certification
  - b. Center for Effective Teaching & Learning (CETL) Designing Online Courses program
  - c. Undocumented Students Ally Training
  - d. Beyond Basic Training
  - e. Veteran's Network Ally Training
2. Healthcare certifications
  - a. Adult CPR/AED
  - b. Swiftwater Rescue Technician
  - c. Emergency Medical Technician-Basic, expired
3. Recreational certifications
  - a. SCUBA

## REFEREED ABSTRACTS – (\* denotes student co-author)

1. H Monroy-Chacon\*, BS Chang\*, JP Lindo\*, A Sanchez\*, A Benítez\*, MS Joseph and **GH Crocker**. A comparison of swimming economy between two full-sleeve wetsuits *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2022
2. B Lim\*, A Villalobos\*, **GH Crocker** and J Mercer. Investigation of swimming economy while wearing different triathlon wetsuit styles at submaximal front crawl swimming. *Annual Meeting of the American College of Sports Medicine*; San Diego, CA: June 2022
3. B Lim\*, A Villalobos\*, **GH Crocker** and J Mercer. Investigation of swimming economy while wearing different triathlon wetsuit styles at submaximal front crawl swimming. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2021
4. **GH Crocker**, J Rothschild and AC Sheard. Effect of a 2-km swim on the cycling power-duration relationship. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2019
5. DJ Monarez\*, LD Dominguez\*, MA Bestard\*, VL Pinedo\*, CA Simmons and **GH Crocker**. Swim or Run? Comparison of Flume and Treadmill Maximal Aerobic Capacities in Trained Swimmers. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2019
6. LD Dominguez\*, AO Mejia\*, DJ Monarez\*, HS Francisco\*, CA Simmons and **GH Crocker**. Swimming with a Snorkel Designed for Metabolic Testing Liberates Respiratory Rate from Stroke Rate. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2019
7. SW Bridges\*, DJ Monarez\*, CA Simmons and **GH Crocker**. Improvement in swimming economy from using a pull buoy. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2018
8. DA Asakawa, **GH Crocker**, A Schmaltz\* and DL Jindrich. Characterization of force and impulse for touchscreen gestures. Annual meeting of the American Society of Biomechanics; Boulder, CO: August 2017
9. JF Moon\*, N Jia\*, AC Rice\*, AV Flores\*, LJ Corona\*, DL Delgado\*, MG Becker, JA Nessler, SC Newcomer and **GH Crocker**. Energetics of swimming with different size hand paddles. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2016
10. JH Jones, **GH Crocker** and LS Barter. Measuring pulmonary diffusing capacity with a rebreathing method in awake animals. *Australia/New Zealand Society for Comparative Physiology and Biochemistry Annual Meeting*; Fowlers Gap, NSW, AUS: December 2015
11. V Ekmečić\*, N Jia\*, TG Cleveland\*, ML Saulino\*, JA Nessler, **GH Crocker** and SC Newcomer. Increasing surfboard volume reduces energy expenditure and alters biomechanics during paddling. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2015

12. CL LaLanne\*, MS Cannady\*, DL Taylor\*, JA Nessler, **GH Crocker** and SC Newcomer. Characterization of surfing heart rate and activity across age groups. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2015
13. JF Moon\*, J Cayabyab\*, JL Cardinal\*, JA Nessler, **GH Crocker** and SC Newcomer. Impact of aging on recreational surfers  $VO_{2peak}$  during simulated paddling. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2015
14. EL Bethke\*, KC Resari\*, W Amador\*, CD Walls\*, NJ Ferro\* and **GH Crocker**. Caffeine ingestion increases mean power but not critical power in female college students. *Annual Meeting of the American College of Sports Medicine*; San Diego, CA: May 2015
15. EL Bethke\*, KC Resari\*, W Amador\*, CD Walls\*, NJ Ferro\* and **GH Crocker**. Caffeine ingestion increases mean power but not critical power in female college students. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Costa Mesa, CA: October 2014
16. **GH Crocker** and JH Jones. Combined effects of hypoxia, carbon monoxide and acute lung injury on  $O_2$  transport and aerobic capacity. *Experimental Biology*; San Diego, CA: April 2014.
17. **GH Crocker** and JH Jones. Hypoxia and CO alter  $O_2$  extraction but not peripheral diffusing capacity during maximal exercise. *Annual Meeting of the American College of Sports Medicine*; Indianapolis, IN: May 2013.
18. **GH Crocker** and JH Jones. Effects of oleic acid-induced lung injury on aerobic capacity. *Annual Meeting of the American College of Sports Medicine*; Indianapolis, IN: May 2013.
19. **GH Crocker** and Jones JH. Factors limiting maximal aerobic capacity: cardiopulmonary or peripheral? *The American Physiological Society Conference on the Integrative Biology of Exercise – VI*; Westminster, CO: October 2012.
20. **GH Crocker**, B Toth, SM Nye, MV Hayes, EM Jones, SH Perloff and JH Jones. More is less: Combined effects of hypoxia and carbon monoxide on aerobic capacity. *American College of Sports Medicine Conference on the Integrative Physiology of Exercise*; Miami Beach, FL: September 2010.
21. J Kwon, **GH Crocker**, MV Hayes, EM Jones, SM Nye, SH Perloff, B Toth and JH Jones. Carbon monoxide stimulates ventilation during exercise but not at rest. *American College of Sports Medicine Conference on the Integrative Physiology of Exercise*; Miami Beach, FL: September 2010.
22. **GH Crocker**, MV Hayes, RE Weems and JH Jones. Effects of hypoxia on  $VO_{2max}$  and lactate accumulation rate in exercising goats. *The American Physiological Society Conference on the Integrative Biology of Exercise – V*; Hilton Head, SC: September 2008.

## ORAL PRESENTATIONS

1. Introduction to my teaching & research. *KIN 2500 class presentation*. November 2016; April 2017; November 2017
2. Oxygen transport in goats, surfers & swimmers. *Cal State LA – research presentation*. February 2016.
3. Swimming into kinesiology. *Cal State LA – teaching presentation*. February 2016.
4. Combined effects of hypoxia, carbon monoxide and acute lung injury on  $O_2$  transport and aerobic capacity. *Molecular, Cellular & Integrative Physiology Graduate Group Exit Seminar (UC Davis)*. December 2013.
5. Factors limiting maximal aerobic capacity: cardiopulmonary or peripheral? *Molecular, Cellular & Integrative Physiology Graduate Group Colloquium (UC Davis)*. March 2012.
6. Effects on exercise performance of breathing altered inspired gases with impaired gas exchange. *Molecular, Cellular & Integrative Physiology Graduate Group Student Research Proposal (UC Davis)*. December 2010.
7. Effects of altered inspired gases on  $VO_{2max}$  and exercise capacity. *Exercise Science Seminar Series (UC Davis)*. May 2010.
8. Effects of inspired gases on maximal aerobic capacity. *Exercise Science student research proposal (UC Davis)*. October 2007.

## POSTER PRESENTATIONS

1. Effect of a 2-km swim on the cycling power-duration relationship. *Annual Meeting of the Southwest Chapter of the American College of Sports Medicine*; Newport Beach, CA: October 2019
2. Combined effects of hypoxia, carbon monoxide and acute lung injury on  $O_2$  transport and aerobic capacity. *Experimental Biology*; San Diego, CA: April 2014.
3. Effects of oleic acid-induced lung injury on aerobic capacity. *Molecular, Cellular & Integrative Physiology Graduate Group Fall Colloquium*; Davis, CA: November 2013.
4. Hypoxia and CO alter  $O_2$  extraction but not peripheral diffusing capacity during maximal exercise. *Annual Meeting of the American College of Sports Medicine*; Indianapolis, IN: May 2013.

5. Effects of oleic acid-induced lung injury on aerobic capacity. *Annual Meeting of the American College of Sports Medicine*; Indianapolis, IN: May 2013.
6. Factors limiting maximal aerobic capacity: cardiopulmonary or peripheral? *The American Physiological Society Conference on the Integrative Biology of Exercise – VI*; Westminster, CO: October 2012.
7. More is less: Combined effects of hypoxia and carbon monoxide on aerobic capacity. *Molecular, Cellular & Integrative Physiology Graduate Group Spring Colloquium*; Auburn, CA: May 2011.
8. More is less: Combined effects of hypoxia and carbon monoxide on aerobic capacity. *American College of Sports Medicine Conference on the Integrative Physiology of Exercise*; Miami Beach, FL: September 2010.
9. Carbon monoxide stimulates ventilation during exercise but not at rest. *American College of Sports Medicine Conference on the Integrative Physiology of Exercise*; Miami Beach, FL: September 2010.
10. Effects of hypoxia on  $\text{VO}_2\text{max}$  and lactate accumulation rate in exercising goats. *The American Physiological Society Conference on the Integrative Biology of Exercise – V*; Hilton Head, SC: September 2008.