

Arturo A. Arce-Esquivel, M.D., Ph.D.

Associate Professor
The University of Texas at Tyler
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EDUCATION

Postdoctoral Training (2012):

Department of Biomedical Sciences
University of Missouri - Columbia, MO
Concentration: Cardiovascular Biology
Supervisor: M. Harold Laughlin, Ph.D.

Ph.D. in Kinesiology - May 2008:

School of Kinesiology
Louisiana State University - Baton Rouge, LA
Concentration: Exercise Physiology
Dissertation: *Exercise and Peripheral Vascular Function in Health and Disease*
Advisor: Michael A. Welsch, Ph.D.

Neonatology - Fellowship (1996):

National University of Cordoba, (Cordoba, Argentina)
Fellowship in Neonatology
Hospital Nacional Materno Universitario de Cordoba (Argentina)

M.D. (1993):

National University of Cordoba, (Cordoba, Argentina)

PROFESSIONAL EXPERIENCE

September 2018 - present:

The University of Texas at Tyler - Tyler, TX
Department of Health and Kinesiology
Associate Professor

September 2012 - August 2018:

The University of Texas at Tyler - Tyler, TX
Department of Health and Kinesiology
Assistant Professor

September 2007 - June 2012:

University of Missouri - Columbia, MO

National Institutes of Health, Program Project Grant - "Vascular Cell Biology: Exercise Training and Coronary Disease."

Project 3: "Exercise: Coronary Reserve, Coronary Heart Disease."

Postdoctoral Fellow

September 2007 - June 2012:

University of Missouri - Columbia, MO

Department of Biomedical Sciences

Postdoctoral Fellow

August 2005 - August 2007:

Pennington Biomedical Research Center & Louisiana State University - Baton Rouge, LA

Research Fellow for "The Louisiana Healthy Aging Study," National Institute of Aging

August 2002 - August 2007:

Louisiana State University - Baton Rouge, LA

Graduate Student Teaching Assistant

June 1999 - May 2001:

Hospital Apoyo - Aplao ZONADIS CASTILLA (Arequipa - Peru)

Staff Physician: Pediatric Unit

May 1998 - July 2002:

Alerta del Sur - ALERTA MEDICA (Arequipa - Peru)

Staff Physician: Emergency Service and Physician Consultant

May 1997 - April 1998:

Operaciones Oleoducto de Petroleos del Peru - Petro-Peru (Piura - Peru)

Staff Physician

July 1996 - April 1997:

Centro Medico Del Sur (Arequipa - Peru)

Staff Physician

June 1995 - April 1996:

Centro Medico: Consultorios Juan XIII (Cordoba - Argentina)

Staff Physician

March 1996 - May 1996:

Hospital Aeronautico: Fuerza Area Argentina (Cordoba - Argentina)

Part-time staff physician

November 1995 - January 1996:

Clinica Privada Junin (Cordoba - Argentina)

Part-time staff physician

May 1995 - June 1996:

Hospital Nacional Materno Universitario de Cordoba (Cordoba - Argentina)

Fellowship in Neonatology

December 1993 through March 1994 and December 1994 through April 1995:

Hospital Area Programa San Antonio Oeste (Rio Negro - Argentina)

Full-time staff physician

TEACHING EXPERIENCE

Courses taught at The University of Texas at Tyler - Tyler, TX

KINE 5319 - Aging and Physical Performance - Graduate
KINE 5313: Exercise Physiology I: Metabolism and Skeletal Muscle - Graduate
KINE 5306 - Exercise and Sports Pharmacology - Graduate
KINE 4305 - Principles of Training: Strength and Power
KINE 4304 - Principles of Training: Endurance
KINE 4319 - Aging and Physical Performance
KINE 4314 - Prescriptive Exercise
KINE 3311 - Exercise Physiology
PYED 4356 - Exercise and Sports Pharmacology
ALHS 1300 - Personal and Community Wellness - Lecture
ALHS 1100 - Personal and Community Wellness - Lab

Courses taught at Louisiana State University - Baton Rouge, LA

KIN 3535 - Exercise Testing and Prescription
KIN 3534 - Scientific Basis for Exercise Prescription: Health and Disease
KIN 3515 - Exercise Physiology
KIN 2504 - Principles of Conditioning: Health and Wellness
KIN 2500 - Human Anatomy
KIN 1999 - Principles of Conditioning - Lab

TEACHING AND MENTORSHIP

Graduate Students:

Heather E. Glenn: The University of Texas at Tyler, Tyler, TX. Graduate Student. Committee Thesis Chair. *Thesis Title: "Moderate Exercise Activity on Body Composition Among Post-Menopausal Women."* Spring 2023

Musharaf Mohiuddin. The University of Texas at Tyler, Tyler, TX. Graduate Student. Committee Thesis Member. *Thesis Title: "Cerebral Vasomotor Reactivity to Assess Brain Dysregulation in Post COVID Neurological Syndrome."* Fall 2022 - Thesis Defense: Summer 2023

Callaghan P. Murphy: The University of Texas at Tyler, Tyler, TX. Graduate Student. Committee Thesis Chair. *Thesis Title: "The Effects of a Velocity Loss Threshold Protocol on Muscle Performance Adaptations."* (2021 - 2022)

Rhonda Boeckman: The University of Texas at Tyler, Tyler, TX. Graduate Student. Committee Thesis Member. *Thesis Title: "The Effects of Modified Tummy Time with Posterior Chain Strength Training on Sagittal Imbalances in Parkinson Disease."* (2019 - 2020)

Katelyn D. Brown: The University of Texas at Tyler, Tyler, TX. Graduate Student. Committee Thesis Chair. *Thesis Title: "Impact of Ischemic Time on Exercise Capacity after Orthotopic Heart Transplantation."* (2018 - 2019)

Ashley N. Tulloch: The University of Texas at Tyler, Tyler, TX. Graduate Research Assistant (2018 - 2019)

Undergraduate Students:

Rebecca M. Floyd: The University of Texas at Tyler, Tyler, TX. Undergraduate Research Assistant (2017)

Brady L. Leissner: The University of Texas at Tyler, Tyler, TX. Undergraduate Research Assistant (2017)
 Clinton B. Locke: The University of Texas at Tyler, Tyler, TX. Undergraduate Research Assistant (2017)
 Nicole G. Musngi: The University of Texas at Tyler, Tyler, TX. Undergraduate Research Assistant (2016)
 Lesley C. Lerma: The University of Texas at Tyler, Tyler, TX. Undergraduate Research Assistant (2016)
 Jose G. Rubio: The University of Texas at Tyler, Tyler, TX. Undergraduate Internship (2016)
 Lauryn N. Ahrns: The University of Texas at Tyler, Tyler, TX. Undergraduate Honors Program (2015 - 2016)
 Allison B. Carrigan: The University of Texas at Tyler, Tyler, TX. Undergraduate Honors Program (2015 - 2016)
 David S. Bayless: University of Missouri, Columbia, MO. Undergraduate Research Assistant (2012)
 Allison L. Schell: University of Missouri, Columbia, MO. Undergraduate Research Assistant (2011 - 2012)
 Lauren E. Delaney: University of Missouri, Columbia, MO. Graduate Research Assistant (2011-2012)
 Amanda Williams: University of Missouri, Columbia, MO. Undergraduate Research Assistant (2010 - 2011)
 Kristi J. Larned: University of Missouri, Columbia, MO. Undergraduate Summer Research Intern (2008)
 Sarah K. Alajajian: University of Missouri, Columbia, MO. Undergraduate Summer Research Intern (2008)

TEACHING ENHANCEMENT ACTIVITIES

Effective Teaching Practices: Cohort C - Fall 2022 - Spring 2023: Association Of College And University Educators (ACUE).

ACUE's course is an evidence-based program of study that addresses the essential body of practice and knowledge that every current and aspiring college educator should possess. These practices are outlined in ACUE's course, which was developed through a comprehensive literature review and in consultation with leading subject matter experts.

- 8-Week Stackable Microcredentials
- 100% Online via Self-Paced Modules
- Effective and Equity-Promoting Teaching Practices
- Endorsed by the American Council on Education
- Facilitated Faculty Learning Community

PUBLICATIONS

Manuscripts under Review

Cardiac Allograft Ischemic Time and Exercise Capacity in Recent Heart Transplant Recipients.
 Katelyn D. Brown, Johanna S. van Zyl, **Arturo A. Arce-Esquivel**, Cheryl Cooper, Joost Felius, Robert L. Gottlieb MD. October 2023

Invited Call for Papers Published: (Peer-Reviewed)

Arce-Esquivel AA (Lead Editor), Dobrosielski DA, and Nelson AG. Special Issue on: Microvascular Disease in Type 2 Diabetes: The Connection between Diabetic Peripheral Neuropathy and Obstructive Sleep Apnea. *J Diabetes Res*. Submitted July 10, 2017. Accepted for publication 2017 Jul 31

Manuscripts Published (Peer-Reviewed Articles)

S. Andrew Cage, Brandon J. Warner, Diana M. Gallegos, Phil Stevenson, **Arturo A. Arce-Esquivel AA***. Effect of Flossing Bands on Pain and Perceived Level of Function in Collegiate Baseball Pitchers. *J Adv Sport Phys Edu*. 2022; 5(6), 115-118. DOI: 10.36348/jaspe.2022.v05i06.001. ISSN 2616 8642 (Print) - ISSN 2617 3905 (Online). Submitted May 24, 2022. Accepted for publication June 1, 2022. Published online: June 10, 2022. ***Senior and Corresponding Author**

Carlos Alberto Arenas Chavez, Luciana Maria de Hollanda, **Arturo Arce-Esquivel**, Aldo Alvarez-Risco, Shyla Del-Aguila-Arcentales, Jaime A Yañez *, Corina Vera-Gonzales. Antibacterial and Antifungal Activity of Functionalized Cotton Fabric with Nanocomposite Based on Silver Nanoparticles and Carboxymethyl Chitosan. *Processes* 2022, 10(6), 1088. Submitted Apr 23, 2022. Accepted for publication May 24, 2022. Published online May 30, 2022.

Devon A. Dobrosielski, Kyle M. Leppert, Liz H. Shearer, **Arturo A. Arce-Esquivel***. "Peru: Life at the Top": A study abroad program designed to enhance knowledge of altitude physiology through experiential learning. *Journal of Physical Education and Sport® (JPES)*. 2020; Vol. 20 (4), Art 253 pp. 1869 - 1878. DOI:10.7752/jpes.2020.04253. online ISSN: 2247 - 806X; p-ISSN: 2247 - 8051; ISSN - L = 2247 - 8051 © JPES. Submitted Apr 07, 2020. Accepted for publication June 22, 2020. Published online June 30, 2020. ***Senior and Corresponding Author**

Alvarez-Risco A., Mejia C., Delgado-Zegarra J., Del-Aguila-Arcentales S., **Arce-Esquivel AA.**, Valladares-Garrido M, Rosas del Portal M., Villegas L., Curioso W., Chandra Sekar M., Yañez J. Peru Approach Against the COVID-19 Infodemic: Insights and Strategies. *Am. J. Trop. Med. Hyg.* 2020; 103(2) pp: 583-586, Aug 5. DOI: 10.4269/ajtmh.20-0536. Submitted May 24, 2020. Accepted for publication: May 28, 2020. Published online June 4, 2020.

Hermanns ML, Rath L, Haas BK, **Arce-Esquivel AA**, Ballard JE, Murley B, Wang YT. Impact of Tai Chi on Peripheral Neuropathy Revisited: A Mixed Methods Study. *Gerontology & Geriatric Medicine*. 2018; 4: 1-9. DOI: 10.1177/2333721418819532. Accepted for publication 2018 Nov 20

Arce-Esquivel AA, Haas BK, Hermanns ML, Ballard JE, Rizer CA, Kimmel GT, Wang YT. Effects of Tai Chi on Muscle Strength, Mobility, and Quality of Life in Patients with Peripheral Neuropathy. *International Journal of Research Studies in Medical and Health Sciences*. 2018; 3(10): 35-43. Accepted for publication 2018 Oct 10

Arce-Esquivel AA, Duke G, Takemoto JK, Rizer CA, Ballard JE. Effects of Light Therapy on Vascular Function in Patients with Diabetic Peripheral Neuropathy. *Cardiol Vasc Res*. 2018; 2(3): 1-6. DOI: 10.33425/2639-8486.1026. Accepted for publication 2018 Jul 12

Arce-Esquivel AA and Ballard JE. Whole Body Resistance Training and Physical Function Among Older Women. *Archives of Physical Health and Sports Medicine*. 2018; 1(1): 14-21. Accepted for publication 2018 Jul 11

Cage SA, Warner BJ, Stevenson P, **Arce-Esquivel AA***. Flossing Bands to Treat Keinböck's Disease in a Collegiate Men's Basketball Player: A Case Report. *Int Phys Med Rehab J*. 2018;

3(2): 175-177. eISSN: 2574-9838. Accepted for publication 2018 Apr 20. ***Senior and Corresponding Author**

Arce-Esquivel AA, Warner BJ, Gallegos DM, Cage SA. Effect of Dry Cupping on Vascular Function Among Young Individuals. *International Journal of Health Sciences* 2017 Sep; 5(3): 10-15. DOI: 10.15640/ijhs.v5n3a2. ISSN: 2372-5060. Accepted for publication 2017 Aug 1

Arce-Esquivel AA, Ballard JE, Haas BK, Hermanns ML, Rizer CA, Kimmel GT, Wang YT. Effect of Tai Chi on Vascular Function among Patients with Peripheral Neuropathy. *J Heart Cardiol* 2016; 2(4): 1-7. DOI: 10.15436/2378-6914.16.1039. Accepted for publication 2016 Oct 25. Publish Date: 2016-11-03

Arce-Esquivel AA and Ballard JE. Effects of Resistance Training on Bone and Muscle Mass in Older Women: A Review. *Sport Exerc Med Open J*. 2015; 1(3): 89-96. ISSN 2379-6391. DOI: 10.17140/SEMOJ-1-114. Accepted for publication 2015 Jul 30. Publish Date: 2015-07-31

Arce-Esquivel AA, Bunker AK, Simmons GH, Yang HT, Laughlin MH, Terjung RL. Impaired Coronary Endothelial Vasorelaxation in a Preclinical Model of Peripheral Arterial Insufficiency. *J Heart Cardiol* 2015; 1(1): 1-09. DOI: 10.15436/2378-6914/15/010. Epub 2015 Jun 29. Publish Date: 2015-06-29

Arce-Esquivel AA. Insulin Resistance and Cardiovascular Disease. *Aletheia - Graduate School's Journal* 2015; 3(1): 121-124. Women's University of the Sacred Heart, Lima - Peru. Universidad Femenina del Sagrado Corazon (UNIFE). Article in Spanish. Accepted for publication 2015 May

Sanzari JK, Billings PC, Wilson JM, Diffenderfer ES, **Arce-Esquivel AA**, Thorne PK, Laughlin MH, Kennedy AR. Effect of Electron Simulated Solar Particle Event Radiation on Vasomotor Function of the Left Anterior Descending Coronary Artery. *Life Sci Space Res (Amst)* 2015 Jan; (4): 6-10. Accepted for publication 2014 Nov 19. Available online 5 December 2014

McKenney ML, Schultz KA, Boyd JH, Byrd JP, Alloosh M, Teague SD, **Arce-Esquivel AA**, Fain JN, Laughlin MH, Sacks HS, Sturek M. Epicardial Adipose Excision Slows the Progression of Porcine Coronary Atherosclerosis. *J Cardiothorac Surg*. 2014 Jan 3; 9:2. DOI: 10.1186/1749-8090-9-2. Accepted for publication 2013 Nov 25

Tisdell E, Scott M, Welsch M, Bahadir Z, Parish T, **Arce-Esquivel AA**, Dobrosielski D. Association of Venous Function and Post-Exercise Oxygen Consumption Recovery Kinetics. *Int J Exer Sci*. 2013; 6(1): 63:73. Accepted for publication 2012 Nov 14

Cherry KE, Walker EJ, Brown JS, Volaufova J, LaMotte LR, Welsh DA, Su LJ, Jazwinski SM, Ellis R, Wood RH, Frisard MI. For the Louisiana Healthy Aging Study: Meghan B. Allen, BS; Gloria Anderson, BS; Iina E. Antikainen, BS; **Arturo M. Arce**, MD; Jennifer Arceneaux, RN; Mark A. Batzer, PhD; Emily O. Boudreaux, MA; Evest A. Broussard, MS; Lauri Byerley, PhD; Pauline A. Callinan, BS; Catherine M. Champagne, PhD, RD; Hau Cheng, MS; Katie E. Cherry, PhD; Yu-Wen Chiu, DrPH, MPH; Liliana Cosenza, BS; M. Elaine Cress, PhD-Consultant; James P. DeLany, PhD; Jenny Y. Denver, MS; W. Andrew Deutsch, PhD; Melissa J. deVeer, MS; Devon A. Dobrosielski, MS; Rebecca Ellis, PhD; Andrea Ermolao, MD; Marla J. Erwin, MA; Mark Erwin, MA; Jennifer M. Fabre, PT, MPT, CSCS; Elizabeth T. H. Fontham, DrPH, MPH; Madlyn Frisard, PhD; Paula Geiselman, PhD; Lindsey Goodwin; Valentina Greco, PhD; Sibte Hadi, PhD; Tiffany Hall; Michael Hamilton, MD; Scott W. Herke, PhD; Karri S. Hawley, PhD; Jennifer Hayden, MS; Kristi Hebert; Fernanda Holton; Hui-Chen Hsu, PhD; S. Michal Jazwinski, PhD; Darcy Johnson, PhD; Lumie Kawasaki, MD; Darla Kendzor, BS; Sangkyu Kim, PhD; Beth G. Kimball, BS; Christina King-Rowley, MS; Robin Kuhn; Kim Landry; Carl Lavie, MD-Consultant; Daniel LaVie; Matthew Leblanc; Christina M. Lefante, MPH; Li Li, MD; Hui-Yi Lin, PhD, MSPH; Kay Lopez,

DSN; John D. Mountz, MD, PhD; Jennifer Owens, BA; Kim B. Pedersen, PhD; Andrew Pellett, PhD; Eric Ravussin, PhD; Paul Remedios; Yolanda Robertson, APRN, MSN, FNP; Jennifer Rood, PhD; Henry Rothschild, MD, PhD; Ryan A. Russell, BS; Erin Sandifer; Beth Schmidt, MSPH; Robert Schwartz, MD-Consultant; Donald K. Scott, PhD; Mandy Shipp, RD; Jennifer L. Silva, MA; F. Nicole Standberry, BS; L. Joseph Su, PhD, MPH; Jessica Thomson, PhD; Valerie Touns, LPN; Crystal Traylor, APRN, MSN, WHNP; Cruz Velasco-Gonzalez, PhD; Julia Volafova, PhD; Celeste Waguespack, BSN, RN; Jerilyn A. Walker, MS; Xiu-Yun Wang, PhD; David A. Welsh, MD; Michael A. Welsch, PhD; Robert H. Wood, PhD; Sarah Zehr, PhD; Pili Zhang, PhD (Louisiana State University, Baton Rouge; Pennington Biomedical Research Center, Baton Rouge; Louisiana State University Health Sciences Center, New Orleans; Tulane University, New Orleans; University of Alabama, Birmingham). Social Engagement and Health in Younger, Older, and Oldest-Old Adults in the Louisiana Healthy Aging Study (LHAS) *J Appl Gerontol.* 2013 February 1; 32(1): 51-75. Epub 2011 Jun 6

Padilla J, Jenkins NT, Roberts MD, **Arce-Esquivel AA**, Martin JS, Laughlin MH, Booth FW. Differential Changes in Vascular mRNA levels between Rat Iliac and Renal Arteries produced by Cessation of Voluntary Running. *Exp Physiol.* 2013 Jan; 98(1): 337-47. Epub ahead 2012 Jun 18

Jenkins NT, Padilla J, **Arce-Esquivel AA**, Bayless DS, Martin JS, Leidy HJ, Booth FW, Rector RS, Laughlin MH. Effects of Endurance Exercise Training, Metformin, and their combination on Adipose Tissue Leptin and IL-10 Secretion in OLETF Rats. *J Appl Physiol.* 2012 Dec; 113(12): 1873-83. Epub 2012 Sep 27

Roseguini BT, **Arce-Esquivel AA**, Newcomer SC, Yang HT, Terjung R, Laughlin MH. Intermittent Pneumatic Leg Compressions Enhance Muscle Performance and Blood Flow in a Model of Peripheral Arterial Insufficiency. *J Appl Physiol.* 2012 May; 112(9): 1556-1563. Epub 2012 Feb 23

Delaney LE, **Arce-Esquivel AA***, Kuroki K, Laughlin MH. Exercise Training Improves Vasoreactivity in the Knee Artery. *Int J Sports Med.* 2012 Feb; 33(2): 114-22. Epub 2011 Nov 17.
***Corresponding Author**

Arce-Esquivel AA, Kreutzer KV, Rush, JW, Turk, JE, Laughlin MH. Exercise Does not Attenuate Early Coronary Artery Disease Progression in a Pig Model. *Med Sci Sports Exerc.* 2012 Jan; 44(1): 27-38. Epub 2011 Jun 16

Roseguini BT, **Arce-Esquivel AA**, Newcomer SC, Laughlin MH. Impact of a Single Session of Intermittent Pneumatic Leg Compressions on Skeletal Muscle and Isolated Artery Gene Expression in Rats. *Am J Physiol Regul Integr Comp Physiol.* 2011 Dec; 301(6): R1658-68. Epub 2011 Sep 28

Padilla J, Simmons GH, Bender S, **Arce-Esquivel AA**, Whyte JJ, Harold Laughlin MH. Vascular Effects of Exercise: Endothelial Adaptations Beyond Active Muscle Beds. *Physiology (Bethesda).* 2011 Jun; 26(3): 132-145

Whyte JJ, Samuel M, Mahan E, Padilla J, Simmons GH, **Arce-Esquivel AA**, Bender SB, Whitworth KM, Hao YH, Murphy CN, Walters EM, Prather RS, Laughlin MH. Vascular Endothelium-specific Overexpression of Human Catalase in Cloned Pigs. *Transgenic Res.* 2011 Oct; 20(5): 989-1001. Epub 2010 Dec 18

Cherry KE, Brown JS, Marks LD, Galea S, Volafova J, Lefante C, Su LJ, Welsh DA, Jazwinski SM. The Louisiana Healthy Aging Study: Meghan B. Allen, BS; Gloria Anderson, BS; Iina E. Antikainen, BS; **Arturo M. Arce**, MD; Jennifer Arceneaux, RN; Mark A. Batzer, PhD; Emily O. Boudreaux, MA; Lauri Byerley, PhD; Catherine M. Champagne PhD, RD; Katie E. Cherry, PhD; Liliana Cosenza, BS; M. Elaine Cress, PhD-Consultant; Jenny Y. Denver, MS; Andy

Deutsch, PhD; Devon A. Dobrosielski, MS; Rebecca Ellis, PhD; Marla J. Erwin, MA; Mark Erwin, MA; Jennifer Fabre, MPT; Elizabeth T. Fontham, PhD; Madlyn Frisard, PhD; Paula Geiselman, PhD; Lindsey Goodwin, BS; Tiffany Hall; Scott W. Herke, PhD; Jennifer Hayden, MS; Kristi Hebert, BS; Fernanda Holton, MA; Hui-Chen Hsu, PhD; S. Michal Jazwinski, PhD; Sangkyu Kim, PhD; Beth G. Kimball, BS; Christina King-Rowley, MS; Kim Landry; Carl Lavie, MD-Consultant; Daniel LaVie, BS; Matthew Leblanc; Christina M. Lefante, MPH; Li Li, MD; Hui-Yi Lin, PhD, MSPH; Kay Lopez, DSN; John D. Mountz, MD PhD; Jennifer Owens, BA; Kim B. Pedersen, PhD; Andrew Pellett, PhD; Eric Ravussin, PhD; Paul Remedios; Yolanda Robertson, NP; Jennifer Rood, PhD; Henry Rothschild, MD, PhD; Ryan A. Russell, BS; Erin Sandifer, BS; Beth Schmidt, MS; Robert Schwartz, MD-Consultant; Donald K. Scott, PhD; Mandy Shipp, RD; Jennifer L. Silva, MA; L. Joseph Su, PhD MPH; Jessica Thomson, PhD; Valerie Toups, LPN; Crystal Traylor, APRN, MSN, WHNP; Cruz Velasco-Gonzalez, PhD; Julia Volaufova, PhD; Celeste Waguespack, BSN, RN; Jerilyn A. Walker, MS; David A. Welsh, MD; Michael A. Welsch, PhD; Robert H. Wood, PhD; Sarah Zehr, PhD; Pili Zhang, PhD. Longitudinal Assessment of Cognitive and Psychosocial Functioning After Hurricanes Katrina and Rita: Exploring Disaster Impact on Middle-Aged, Older, and Oldest-Old Adults. *Journal of Applied Biobehavioral Research*. 2011; 16 (3-4): 187-211. DOI: 10.1111/j.1751-9861.2011.00073. x. First published 2012 Jan 10

Company JM, Booth FW, Laughlin MH, **Arce-Esquivel AA**, Sacks HS, Bahouth SW, Fain JN. Epicardial Fat Gene Expression after Aerobic Exercise Training in Pigs with Coronary Atherosclerosis: Relationship to Visceral and Subcutaneous Fat. *J Appl Physiol*. 2010 Dec; 109(6): 1904-1912. Epub 2010 Oct 14

Byerley LO, Leamy L, Tam SW, Chou CW, Ravussin E; Louisiana Healthy Aging Study Jazwinski SM, Batzer M, Callinan P, Walker J, Herke SW, Rouzan D, Arceneaux J, Pellett A, Rothschild H, Traylor T, Welsh D, Su J, Chiu YW, Fontham E, Velasco-Gonzalez C, Hayden J, Leblanc M, Li L, Kim S, Lin HY, Schmidt B, Thompson J, Greco V, Kimball B, Allen M, Scott D, Mountz J, Hsu HC, Zhang P, Pederson K, Zhou J, Hall T, Landry K, Shipp M, Smith A, Byerley L, DeLany JP, Schwartz R, Broussard E, Businelle M, Geiselman P, Kendzor D, Hegde V, Wood R, Welsch M, Antikainen LE, Holton F, Lavie C, Brown A, Russell R, Dobrosielski D, **Arce A**, Cherry K, Hawley K, Olinde E, Denver J, Lopez K. Development of a Serum Profile for Healthy Aging. *Age (Dordr)* 2010 Dec; 32(4): 497-507. DOI: 10.1007/s11357-010-9146-8. Epub 2010 May 19

Brown JS, Cherry KE, Marks LD, Jackson EM, Volaufova J, Lefante C, Jazwinski SM; Louisiana Healthy Aging Study. Collaborators: Allen MB, Anderson G, Antikainen IE, **Arce AM**, Arceneaux J, Batzer MA, Boudreaux EO, Byerley L, Champagne CM, Cherry KE, Cosenza L, Cress ME, Denver JY, Deutsch A, Dobrosielski DA, Ellis R, Erwin MJ, Erwin M, Fabre J, Fontham ET, Frisard M, Geiselman P, Goodwin L, Hall T, Herke SW, Hayden J, Hebert K, Holton F, Hsu HC, Jazwinski SM, Kim S, Kimball BG, King-Rowley C, Landry K, Lavie C, LaVie D, Leblanc M, Lefante CM, Li L, Lin HY, Lopez K, Mountz JD, Owens J, Pedersen KB, Pellett A, Ravussin E, Remedios P, Robertson Y, Rood J, Rothschild H, Russell RA, Sandifer E, Schmidt B, Schwartz R, Scott DK, Shipp M, Silva JL, Su LJ, Thomson J, Toups V, Traylor C, Velasco-Gonzalez C, Volaufova J, Waguespack C, Walker JA, Welsh DA, Welsch MA, Wood RH, Zehr S, Zhang P. After Hurricanes Katrina and Rita: Gender Differences in Health and Religiosity in Middle-Aged and Older Adults. *Health Care Women Int*. 2010 Nov; 31(11): 997-1012. DOI: 10.1080/07399332.2010.514085

Mikus CR, Rector RS, **Arce-Esquivel AA**, Libla JL, Booth FW, Ibdah JA, Laughlin MH, Thyfault JP. Daily Physical Activity Enhances Reactivity to Insulin in Skeletal Muscle Arterioles of Hyperphagic Otsuka Long-Evans Tokushima Fatty Rats. *J Appl Physiol* 2010 Oct; 109(4): 1203-10. Epub 2010 Jul 15

Jazwinski SM, Kim S, Dai J, Li L, Bi X, Jiang JC, Arnold J, Batzer MA, Walker JA, Welsh DA, Lefante CM, Volaufova J, Myers L, Su LJ, Hausman DB, Miceli MV, Ravussin E, Poon LW,

Cherry KE, Welsch MA; Georgia Centenarian Study and the Louisiana Healthy Aging Study. Collaborators: Green RC, Gearing M, Markesbery WR, Woodard JL, Johnson MA, Tenover JS, Siegler IC, Martin P, MacDonald M, Rott C, Rodgers WL, Davey A, Allen M, Antikainen IE, **Arce AM**, Arceneaux J, Boudreaux EO, Byerley L, Callinan PA, Champagne CM, Cheng H, Chiu YW, Cosenza L, Cress ME, Czarny-Ratajczak M, DeLany JP, Denver J, Deutsch A, deVeer MJ, Dobrosielski DA, Ellis R, Ermolao A, Erwin M, Erwin M, Fabre J, Fontham E, Frisard M, Geiselman P, Goodwin L, Greco V, Hadie S, Hall T, Hamilton M, Herke SW, Hawley K, Hayden J, Hebert K, Holton F, Hsu HC, Johannsen D, Kawasaki L, Kimball B, King-Rowley C, Konkel M, Kuhn R, Landry K, Lavie C, LaVie D, Leblanc M, Lin HY, Lopez K, McEvoy-Hein B, Mountz JD, Olinde E, Owens J, Pedersen K, Pellett A, Remedios P, Robertson Y, Rood J, Rothschild H, Russell RA, Sandifer E, Schmidt B, Schwartz R, Scott DK, Silva J, Standberry FN, Thomson J, Tiwari A, Toups V, Traylor C, Velasco-Gonzalez C, Waguespack C, Wang XY, Wood RH, Yu Q, Zehr S, Zhang P. HRAS1 and LASS1 with APOE are Associated with Human Longevity and Healthy Aging. *Aging Cell*. 2010 Oct; 9(5):698-708. Epub 2010 Aug 4

Bunker AK, **Arce-Esquivel AA**, Rector RS, Booth FW, Ibdah JA, Laughlin MH. Physical Activity Maintains Aortic Endothelium Dependent Relaxation in the Obese, type 2 Diabetic OLETF Rat. *Am J Physiol Heart Circ Physiol* 2010 Jun; 298(6): H1889–H1901. Epub 2010 Mar 19

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NATIONAL PRESENTATIONS AND SYMPOSIUMS

Lowe, Timothy W.; Griffin, Lisa; Dennis, Robert W.; **Arce-Esquivel, Arturo A.**; and Dong, Xuanliang Neil (July 2020). *Effects of A 4-week Vibration-induced Hamstrings Fatigue Intervention On Quadriceps Weakness After ACL Reconstruction*. Presented at the annual meeting of the American College of Sports Medicine - ACSM 2020 Virtual Experience

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Arce-Esquivel, Arturo, A.; Tulloch, Ashely N.; Ballard, Joyce, E., FACSM (May 2019). *Modification of Vascular Function after Acute Handgrip Exercise Training in College Students*. Presented at the annual meeting of the American College of Sports Medicine, Orlando, FL

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Ballard, Joyce E.; and **Arce-Esquivel, Arturo A.** (May 2017). *Effects of Resistance Training on Physical Exercise Capacity and Vascular Function among Elderly Women*. Presented at the annual meeting of the American College of Sports Medicine, Denver, CO

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Ballard, Joyce E.; **Arce-Esquivel, Arturo A.** (May 2015). *Resistance Training and Physical Function Among Aged Mature Women*. Presented at the annual meeting of the American College of Sports Medicine, San Diego, CA

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Arturo Arce, Michael Welsch (January 2004). *Short-term circuit resistance training does not alter vascular function and produces similar strength gains between one versus three sets of exercises*. Presented at the Southeast Chapter of the American College of Sports Medicine, Atlanta, GA

INTERNATIONAL PRESENTATIONS AND SYMPOSIUMS

Arturo A. Arce-Esquivel (December 2023). "The Effects of Exercise and Probiotics in Patients with Type 2 Diabetes." International Symposium: Nutrition and Diabetes. School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC), Lima - Peru

Arturo A. Arce-Esquivel (June 2023). "Effects of Altitude on Nutrition for Health and Sports Performance." International Symposium: High Altitude and Nutrition. Graduate School - Faculty of Health Sciences - San Ignacio of Loyola University, Lima - Peru

Arturo A. Arce-Esquivel (December 2022). "*The Aging Athlete: Way to Go.*" International Symposium: Physical Activity and the Aging Process. School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC), Lima - Peru

Arturo A. Arce-Esquivel (December 2021). "*Inflammation and Cardiovascular Risk among People Exposed to Chronic Intermittent Hypobaric Hypoxia.*" International Symposium: Life at the Top - High Altitude in Health and Exercise. School of Medicine - National University of San Agustín of Arequipa - Peru.

Katelyn D. Brown, Johanna S. van Zyl, **Arturo A. Arce-Esquivel**, Cheryl Cooper, Jenny Adams, Joost Felijs, Robert L. Gottlieb (April 2021). *Associations of Perioperative, Donor, and recipient Factors with Functional Exercise Capacity after Orthotopic Heart Transplantation*. Presented at the 41st International Society for Heart and Lung Transplantation (ISHLT) annual meeting. ISHLT's Annual Meeting April 26 2021, Montreal, Canada

Katelyn D. Brown, Johanna S. van Zyl, **Arturo A. Arce-Esquivel**, Cheryl Cooper, Jenny Adams, Joost Felijs, Robert L. Gottlieb (April 2021). *Impact of Ischemic Time on Cardiopulmonary*

Exercise Outcomes after Orthotopic Heart Transplantation. Presented at the 41st International Society for Heart and Lung Transplantation (ISHLT) annual meeting. ISHLT's Annual Meeting April 26, 2021, Montreal, Canada

Arturo A. Arce-Esquivel (December 2019). *"Aging and Physical Activity: Biomarkers."* International Symposium: The Aging Process. School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC), Lima - Peru

Arturo A. Arce-Esquivel (December 2018). *"Exercise is Medicine: The Evidence."* School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC), Lima - Peru

Arturo A. Arce-Esquivel (May 2017). *Second International Symposium in "Healthy Lifestyle: Nutrition, Exercise, and Prevention of Chronic Diseases."* The Faculty of Health Sciences - San Ignacio of Loyola University, Lima - Peru. Universidad San Ignacio de Loyola (USIL)

Arturo A. Arce-Esquivel (November 2016). *International Congress of Physiological Sciences: "Oxidative Stress in Pathophysiological Processes."* School of Medicine - National University of San Agustín of Arequipa - Peru. The Peruvian Society of Physiological Sciences. CIENCIACTIVA - CONCYTEC. Peruvian University Cayetano Heredia, Lima - Peru

Arturo A. Arce-Esquivel (June 2016). *Vascular Function in Health and Disease - Healthy Aging. First International Symposium Update in Sports Science and Exercise: Nutrition, Health, Psychology, and Education.* The Faculty of Health Sciences - San Ignacio of Loyola University, Lima - Peru. Universidad San Ignacio de Loyola (USIL)

Arturo A. Arce-Esquivel (December 2015). *Resistance Training and Vascular Function.* Presented at the Graduate School - Women's University of the Sacred Heart, Lima - Peru. Universidad Femenina del Sagrado Corazon (UNIFE)

Arturo A. Arce-Esquivel (July 2014). *The Role of Physical Activity and Diet in Diabetes Control.* Presented at the Graduate School - Women's University of the Sacred Heart, Lima - Peru. Universidad Femenina del Sagrado Corazon (UNIFE)

Arturo A. Arce-Esquivel (July 2012). *Physical Activity and the Battle against Modern Chronic Diseases.* Presented at the Graduate School - Women's University of the Sacred Heart, Lima - Peru. Universidad Femenina del Sagrado Corazon (UNIFE)

Arturo A. Arce-Esquivel (August 2008). *Perspectives of the Scientific Investigation.* Presented at St. Mary Catholic University, Arequipa - Peru. Centro de Investigacion de la Catolica (CICA): Universidad Catolica de Santa Maria

Arturo A. Arce-Esquivel (December 2004). *Flexing the Nation's Muscle.* Presented at the Exercise and Sports Physiology International Conference. St. Mary Catholic University, Arequipa - Peru. Centro de Investigacion de la Catolica (CICA): Universidad Catolica de Santa Maria

SELECTED GRANTS - UT Tyler

Grants Submitted:

Alliance for Potato Research & Education Grant Program. Proposal ID: 1322373 (2024). "Effect of Potato Consumption on Cardiometabolic Risk Factors and Gut Microbiome Changes in Northeast Texas Adults who are Overweight and Obese." Madhura Maiya (PI), **Aruro A. Arce-Esquivel (Co-I)**, Farah Deba (collaborator). Letter of Intent Submitted: 3-23-24. Amount: \$200,00

NASA Grant - NASA Human Research Program Flagship Opportunity. Proposal: 24-24FLAG_2-0069 (2024). "A Multiplex System for Investigating Human Spaceflight Biomarkers Validated Through Analog Exercise and Rodent Studies in Altered Gravity, Radiation, and Sleep Conditions." Anand Narayanan (PI), Shawana Tabassum (Co-I / Institutional PI, **Arturo A. Arce-Esquivel (Co-I)**), Stephen Cage (Co-I). Submitted: 1-30-24. Amount: \$1,194,084

Past and Concluded Grants:

Arizona State University (2018). "Collaborative Research: Patterns of Atrial Fibrillation as a Measure of Cardiac Health Using Long-term Cardiac Monitoring." **Arturo A. Arce-Esquivel (PI)**, Jimi Francis, Ayan Banerjee, Sandeep Gupta, Premananda Indic. Funded July 2018 (\$10,380 from 7/1/18 to 5/31/19).

National Science Foundation (NSF 17-561) - 2017. "Collaborative Research: Effectiveness and Efficiency of Human Milk Transfer: Quantification of Velocity, Flow, and Pressure." Jimi Francis, **Arturo A. Arce-Esquivel (Co-I)**, Fredericka D. Brown, Darby Dickton, Premananda Indic, Jennifer K. Hendryx Parsons, Ruth Lucas, Stephen J. Walsh. Submitted 10-25-17 (\$483,395 for 36 months). No funded

Sanofi Innovation Awards Program (2017). "Aerobic Exercise Training Reduces Arterial Stiffness But May Increase Thrombotic Risk in Patients with Atrial Fibrillation - A Stroke Prevention Paradox." Benjamin Tseng, **Arturo A. Arce-Esquivel (Co-I)**, Vijaya Lella Rao, and Satyam Sarma. Submitted June 2017 (Pre-proposal under review) (\$125,000 for 1 year)

Institute for Integrated Healthcare - College of Nursing & Health Sciences. Research Grant. The University of Texas at Tyler (2016). "Effects of Light Therapy on Vascular Function in Patients with Diabetic Peripheral Neuropathy." **Arturo A. Arce-Esquivel (PI)**, Carol Rizer, Jody K. Takemoto, Joyce E. Ballard, and Gloria Duke. Funded August 2016 (\$1,992)

College of Nursing & Health Sciences. Intramural Grant Program. The University of Texas at Tyler (2015-2016). "Effects of Light Therapy on Vascular Function in Patients with Diabetic Peripheral Neuropathy." **Arturo A. Arce-Esquivel (PI)**, Carol Rizer, Jody K. Takemoto, Joyce E. Ballard, and Gloria Duke. Submitted October 2015 (\$5,000). No funded

AHA - 15BGIA25870012 (2015). "Reduction in Arterial Stiffness and White Matter Burden Reduces Stroke Risk in Patients with Atrial Fibrillation." Benjamin Y. Tseng, Satyam Sarma, **Arturo A. Arce-Esquivel (Consultant)**, Rong Zhang, C. Munro Cullum, Benjamin D. Levine, Hanzhang Lu, Hao Huang, Ramon F. Diaz-Arrastia, Heidi C. Rossetti, Shigeki Shiabta, Zhu Yong-Sheng, Noam Y. Harel (2015). Funded July 2015 (\$150,000 for 2 years)

Office of Sponsored Research: Faculty Internal Research Support Program. The University of Texas at Tyler (2015). "Reduction in Arterial Stiffness Reduces Stroke Risk in Patients with Atrial Fibrillation." Benjamin Y. Tseng and **Arturo A. Arce-Esquivel (Co-I)**. Funded May 2015 (\$9,500)

College of Nursing & Health Sciences. Intramural Grant Program. The University of Texas at Tyler (2014-2015). "Exercise Therapy in Patients with Peripheral Neuropathy." **Arturo A. Arce-Esquivel (PI)**, Joyce E. Ballard, Barbara K. Haas, Melinda L. Hermanns, Yong T. Wang, and Gary T. Kimmel. Funded February 2015 (\$5,000)

NIH, 2013 R-15 (2013). "Effect of Exercise during Adjuvant Chemotherapy Infusion for Breast Cancer." Barbara Haas, Melinda Hermanns, **Arturo A. Arce-Esquivel (Co-PI)**, Gary Kimmel, and Svetislava Vujkela. Submitted November 2013 (\$297,180 for 2 years). No funded

Office of Sponsored Research: Faculty Internal Research Support Program. The University of Texas at Tyler (2013). "Evaluating the Effects of Exercise Training on Physiological and Behavioral Variables in Male Smokers." **Arturo A. Arce-Esquivel (PI)**, and Cheryl M. Cooper (Co-I). Submitted March 2013 (\$9,500). No funded

Instructional Materials Allotment Technology Grants for 21st Century Learning. Chapel Hill ISD. James Crouse, Amber James, Susan Stedry, **Arturo A. Arce-Esquivel (Co-PI)**. "Girls Soccer Heart Rate Program." Funded November 2012 (\$5,000)

SELECTED AWARDS - UT Tyler

2014 - 2015 Research Award 2014 - 2015: In recognition to dedication to Innovative Research. College of Nursing & Health Sciences - UT Tyler

SERVICE

Service to the Profession

Editorial Board:

Therapeutic Advances in Cardiology
JSM Renal Medicine

Manuscript Reviewer:

Thrombosis Research
Journal of Applied Physiology
The American Journal of Cardiology
American Journal of Physiology - Heart and Circulatory Physiology
Transactions on Neural Systems & Rehabilitation Engineering
Cardiovascular and Haematological Disorders-Drug Target
Medicine & Science in Sports & Medicine
Women in Sport and Physical Activity Journal
PLOS ONE
Journal of Applied Gerontology
Current Gerontology and Geriatrics Research
Gerontology and Geriatric Medicine
Experimental Gerontology
Aging Clinical and Experimental Research
BioMed Research International
International Journal of Sports Medicine
Journal of Sport and Health Science
Sports and Exercise Medicine
International Journal of Exercise Science
BMC Sports Science, Medicine and Rehabilitation
Journal of Human Performance in Extreme Environments
International Physical Medicine & Rehabilitation Journal
Journal of Clinical Microbiology and Biochemical Technology
Asian Journal of Pediatric Research
Clinical and Experimental Pharmacology and Physiology
Journal of Pharmaceutical Research International
Asian Journal of Research in Nursing and Health
International Journal of Mental Health Promotion
Transactions on Neural Systems & Rehabilitation Engineering

Service to The University of Texas at Tyler

Service to the University:

SHP Curriculum, Instruction & Technology Committee (CIT), since fall 2022
Medical School Steering Committee, since spring 2020
University Undergraduate Council, since fall 2018
Faculty 180 Review Group, since spring 2018
Quality Enhancement Plan (QEP) Planning and Implementation Committee, since spring 2018
University Committee: Market Analysis - Physician Assistant Program, since summer 2017
Research Council: member, spring 2014 - until spring 2016

Service to the College of Nursing and Health Sciences:

CNHS Endowment Professorship Review Committee, since spring 2019

CNHS Quality Enhancement Plan (QEP) Planning and Implementation Committee, since spring 2018
College of Nursing and Health Sciences Teaching Award Committee, member, since fall 2014

Service to the Department of Health and Kinesiology:

Search Committee - Assistant/Associate Professor, Communication Sciences and Disorders, since spring 2021
Promotion and Tenure Guidelines, since spring 2019, chair
Promotion and Tenure Committee, since fall 2018
Research Committee (Chair) - since spring 2016
Policies and Procedures Committee, since spring 2013
Graduate Admission Committee, since spring 2013
Search Committee - Assistant-Full Professor, Kinesiology, fall 2014
Search Committee - Departmental Chair, spring 2013
Search Committee - Assistant-Full Professor, Motor Learning & Control, summer 2013
Curriculum Committee, fall 2012 until fall 2015
Departmental Journal Club Coordinator, since fall 2012

Service to the Community:

Fit City Tyler - Steering Committee, since spring 2020
Tai Chi Program for Patients with Peripheral Neuropathy - Coordination and Supervision, since spring 2016

PROFESSIONAL AFFILIATION

2013 - Present	Texas Chapter of the American College of Sports Medicine - member
2010 - Present	American Heart Association - member
2008 - Present	The American Physiological Society - member
2008 - Present	European Atherosclerosis Society - member
2002 - Present	American College of Sports Medicine - member

PROFESSIONAL CREDENTIAL

1997 - Present	Medical College of Peru - Medical License
1993 - 1996	Medical Council of Cordoba (Argentina) - Medical License

ADDITIONAL SKILLS AND EXPERIENCE

Foreign language skills: Command of Spanish