

# Daisey Vega

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EDUCATION	<b>University of Houston</b> Ph.D., Kinesiology <i>Biomechanics emphasis</i>  M.S., Engineering Technology  B.S., Kinesiology - Exercise Science <i>Honors: Magna Cum Laude</i>	Anticipated May 2024  Anticipated Summer 2021  May 2019
RESEARCH INTERESTS	biomechanics, locomotion, energetics, assistive devices, rehabilitation, muscle-tendon function	
HONORS AND AWARDS	<b>Graduate Research Award</b> Pre-Candidacy Category Health and Human Performance Department  <b>Cullen Graduate Student Success Fellowship</b> University of Houston Graduate School  <b>3 Minute Thesis Competition</b> Finalist, Masters Student Category 44 <sup>th</sup> Annual Meeting of the American Society of Biomechanics  <b>Mr. and Mrs. Richard Mullineaux Scholarship</b> University of Houston College of Technology  <b>Graduate Tuition Fellowship</b> Competitive fellowship for Ph.D. Students University of Houston Graduate School  <b>Graduate School Fund</b> University of Houston Graduate School  <b>Summer Undergraduate Research Fellowship (SURF)</b> Undergraduate Scholarship for Summer Research University of Houston Office of Undergraduate Research	December 2020  November 2020  August 2020  August 2020  Fall 2020 – Spring 2021  Fall 2019 – Spring 2020  Summer 2018
PROFESSIONAL EXPERIENCE	<b>Graduate Research Assistant</b> , University of Houston Department: Center for Neuromotor and Biomechanics Research PI: Christopher J. Arellano, Ph.D.  <b>Research Assistant</b> , University of Houston Department: Center for Neuromotor and Biomechanics Research PI: Christopher J. Arellano, Ph.D.  <b>Biomechanics Teaching Assistant</b> , University of Houston	Jan 2020 –  May 2019 – Aug. 2019  Fall 2019

Department: Health and Human Performance  
Instructor: Christopher J. Arellano, Ph.D.

**Undergraduate Research Assistant**, University of Houston Jan. 2018 – May 2019  
Department: Center for Neuromotor and Biomechanics Research  
Mentor: Christopher J. Arellano, Ph.D.

**Executive Director**, University of Houston Aug. 2017 – Aug. 2018  
Department: Office of Admissions  
Organization: Orientation Team

**Student Mentor**, University of Houston Aug. 2016 – Aug. 2017  
Department: Office of Admissions  
Organization: Orientation Team

**Student Leader**, University of Houston Dec. 2015 – Aug. 2016  
Department: Office of Admissions  
Organization: Orientation Team

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PROFESSIONAL DEVELOPMENT **Scientist Mentoring & Diversity Program (SMDP), Scholar** October 2020  
International Center for Professional Development  
Industry mentor: Jamal Lewis, Boston Scientific

**ComSciCon Houston Workshop 2020, Selected** February 2020  
Rice University Community Initiatives  
Description: A workshop series for graduate students focused on science communication skills.

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OUTREACH **Invited Guest Speaker**, “Graduate Panel Event” September 2020  
Hosted by the University of Houston’s (SHPE)  
Description: Shared our graduate journey with undergraduate students and provided guidance towards their journey.

**Volunteer**, National Graduate Committee (NGC) September 2020 -  
Subcommittee: Graduate Student Support & Career Development  
Description: Collaboratively work with the Society of Hispanic Professional Engineers (SHPE) to innovate, coordinate, and execute SHPE’s mission as it relates to graduate degree efforts.

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PEER-REVIEWED CONFERENCE PROCEEDINGS & ABSTRACTS 1. **D. Vega** and C.J. Arellano. “Reducing the Metabolic Cost of Walking by Using the Arms to Drive the Legs.” Poster presentation at *Dynamic Walking (DW) Annual Meeting*, Virtual Event. May 14, 2020.  
2. **D. Vega** and C.J. Arellano. “Reducing the Metabolic Cost of Walking by Using the Arms to Drive the Legs.” Podium presentation at the *American Society of Biomechanics (ASB) 44<sup>th</sup> Annual Meeting*, Virtual Event. August 5, 2020.

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RESEARCH PUBLICATIONS 1. **D. Vega** and C.J. Arellano. “Using the Arms to Drive the Legs Reduces the Metabolic Cost of Walking.” *Journal of NeuroEngineering and Rehabilitation*. Submitted and Under Review.

2. S. A. Thomas, **D. Vega** and C.J. Arellano. "Do humans exploit the metabolic and mechanical benefits of arm swing across slow to fast walking speeds?" *Journal of Biomechanics*. December 24, 2020.

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PROFESSIONAL  
AFFILIATIONS

**American Society of Biomechanics (ASB)**, Member (since June 2020)  
**National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)**, Member (since June 2020)  
**Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)**, Member (since July 2020)  
**Society of Hispanic Professional Engineers (SHPE)**, Member (since August 2020)