
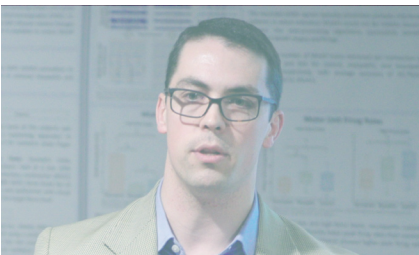
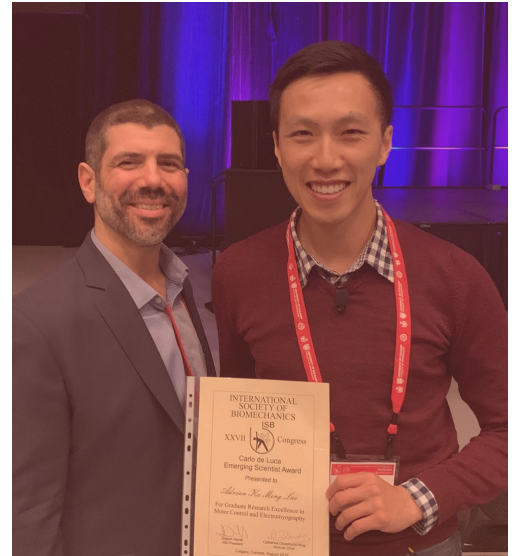


**A Better World Starts with Innovation.  
The De Luca Foundation is Empowering Scientists to Innovate.**

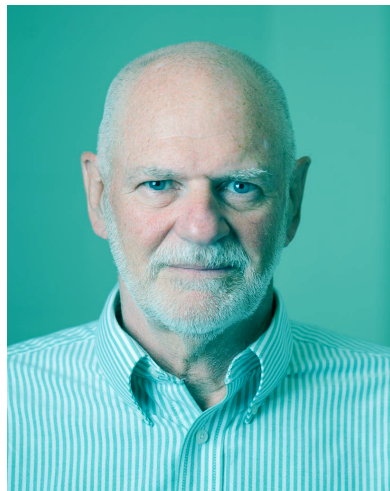



**17th Annual  
Delsys Prize Winner**  
Ms. Shriya Srinivasan  
Harvard-MIT (USA)

**2019  
Carlo De Luca  
Emerging  
Scientist Award  
Winner**  
Dr. Adrian Ka  
Ming Lai  
Simon Fraser  
University  
(Canada)



**National Biomechanics Day**  
We are proud to support the  
biomechanics community in always  
moving forward



**DLF Thanks**  
ISB President  
Prof. Joseph Hamill

**App Development Competition  
Phase II Winner**  
Prof. Bart Jansen, Vrije  
Universiteit Brussel (Belgium)



**Supporting Researchers Worldwide to Foster a Path of Innovation  
in Electromyography and Human Movement Sciences**

[www.delucafoundation.org](http://www.delucafoundation.org)  
The De Luca Foundation is a 501c(3) tax exempt organization

# Statement of Activities

PARTIAL LISTINGS OF CASH AWARD AMOUNT IN FY 2019 : \$ 48,796.98 USD



## AWARD DETAILS

VALUE (USD)

### Honor Excellence in Research

<b>Carlo De Luca Emerging Scientist Award</b> Dr. Adrian Ka Ming Lai, Simon Fraser University (Canada)	\$ 2,500.00
<b>Delsys Prize</b> Ms. Shriya Srinivasan, Harvard-MIT (USA)	\$ 24,805.00
<b>2019 Support for Research Using New, Innovative Technology</b> Adrian Schultz (University of Newcastle)	\$ 2,500.00



### App Development Competition

<b>Phase I</b> Prof. Bart Jansen, Vrije Universiteit Brussel (Belgium) Prof. Janie Wilson, McMaster University (Canada)	\$ 6,998.00
<b>Phase II</b> Prof. Bart Jansen, Vrije Universiteit Brussel (Belgium)	\$ 10,000.00



### Support for Meetings

<b>Motor Control in Speech, Voice and Swallowing</b> Beijing, China
<b>9th Symposium on Motor Control in Biomechanics at ACSM 2019</b> Orlando, Florida (USA)
<b>10th Symposium on Motor Control in Biomechanics at ISB/ASB 2019</b> Calgary (Canada)
<b>Wartenweiler Memorial Lecture at ISB/ASB 2019</b> Calgary (Canada)
<b>ISB/ASB 2019</b> Calgary (Canada)

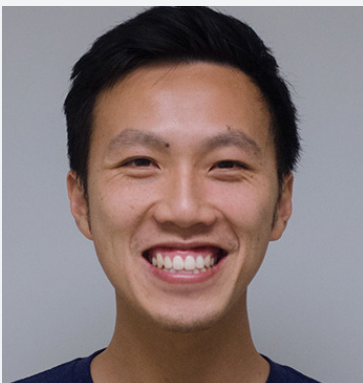
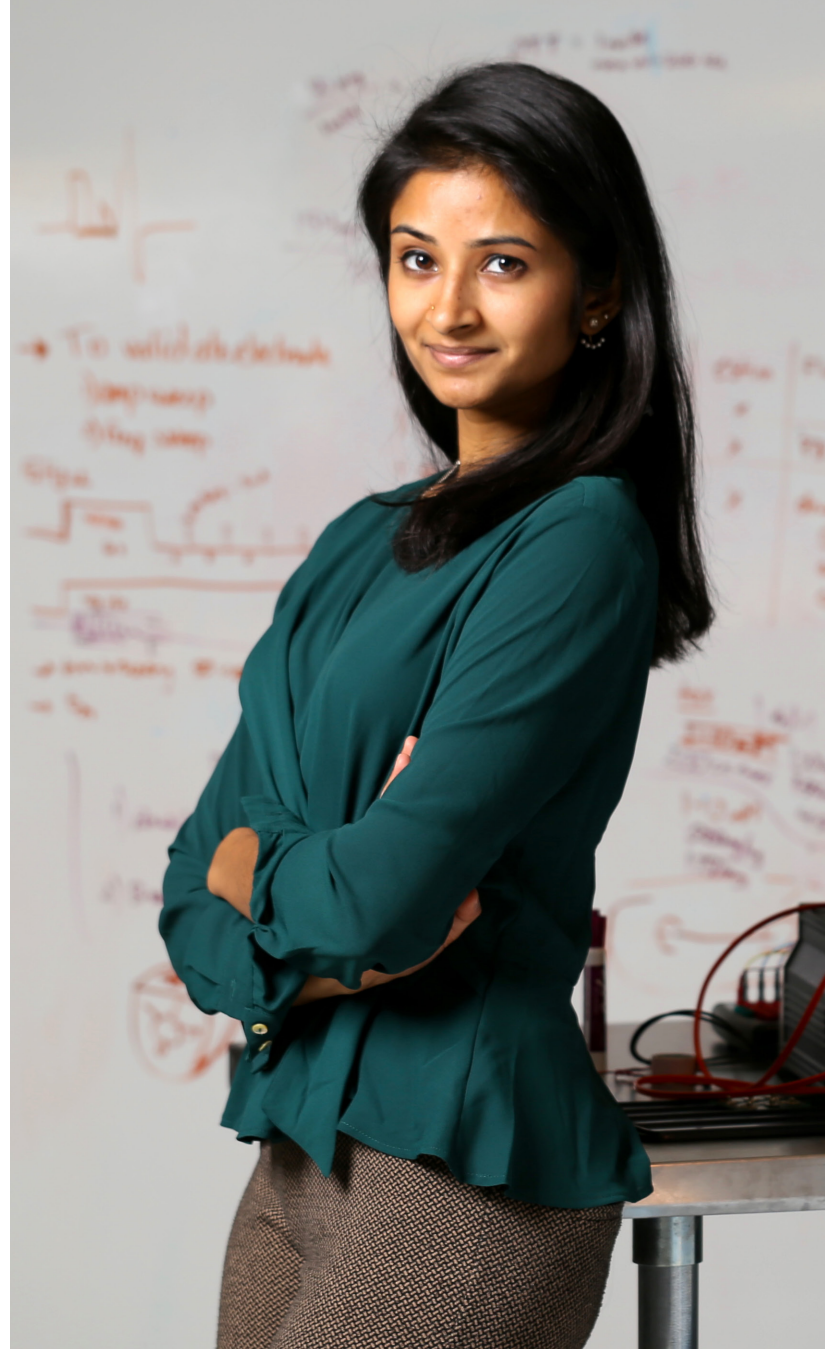
### Other Support

<b>Bionic 5k</b> Cambridge, MA (USA)	
<b>"Sports and Brain" Symposium at FAOPS2019</b> Kobe (Japan)	\$ 1,000.00
<b>SPIN 2019</b> Noida, Uttar Pradesh (India)	\$ 200.00
<b>National Biomechanics Day at Delsys HQ</b> Natick, MA (USA)	\$ 543.98
<b>Shriners Hospitals 2019 Walk for Love</b> Philadelphia, PA (USA)	\$ 250.00

# 17<sup>th</sup> Annual Delsys Prize Winner

Ms. Shriya Srinivasan  
Harvard-MIT (USA)

Ms. Srinivasan's winning proposal, titled, "**Empowering the EMG Signal Source: Agonist-Antagonist Myoneural Interfaces for Neuroprosthetic Control,**" was selected from a field of 182 entries from 34 countries. The entries represented a remarkably broad range of interests in diverse areas such as Biomechanics, Physiology, Signal Processing, Robotics, Rehabilitation, and various others. We are honored to play a small part in this success story by illuminating outstanding contributions to the field.



## 2019 Carlo De Luca Emerging Scientist Award Winner

Dr. Adrian Ka Ming Lai  
Simon Fraser University (Canada)

On behalf of ISB, we have the great pleasure to announce that the winner of the 2019 Carlo De Luca Emerging Scientist Award sponsored by the De Luca Foundation is Dr. Adrian Ka Ming Lai, Simon Fraser University, Canada, for his work titled "**Reverse engineering motor unit recruitment: A framework for studying motor unit recruitment during dynamic movement**".



# App Development Competition

**The De Luca Foundation opened a new App Development Competition initiative.**



The competition provides a chance to win equipment and cash awards up to \$7,500.00 USD by developing EMG-centric applications for mobile devices with real-world viability.

We're pleased to announce that the winner of this new competition is Prof. Bart Jansen of (Vrije Universiteit Brussel) for developing "Ghostly," a game-based rehabilitation app for patients with motor and neuromuscular disorders.

Prof. Janie Wilson was also selected as a developer, for her proposal of an app that provides a functional scoring tool to quantify deficits and improvements after total knee arthroplasty surgery based on muscle activation patterns.

We hope that the establishment of this competition will encourage forward-thinking teams to utilize sensor technology in new and unique ways for EMG-driven patient care solutions.



Pictured (top to bottom, left to right): Bart Jansen, Lubos Omelina, Katka Kostkova, Janie Wilson, Jereme Outerleys, Dylan Kobsar, Renata Kirkwood



## Support for Meetings

De Luca Foundation supports the organization of meetings that provide a forum to highlight and foster research advancements, sharing of knowledge, and education in the fields of motor control, biomechanics, and human movement science.



We are proud to have supported the 9th and 10th Motor Control Symposia, hosted by the ISB Working Group in Motor Control. The 9th Symposium on Motor Control in Biomechanics, held in Orlando, Florida (USA) took place on May 28th 2019, on the pre-conference day of the 66th Annual Meeting of ACSM. The 10th Symposium on Motor Control in Biomechanics, held in Calgary (Canada) in conjunction with the XXVII Congress of ISB 2019 and the 43rd Annual Meeting of ASB 2019 took place on July 31st-August 4th 2019. Both events featured internationally renowned speakers presented their work at the intersection of Motor Control and Biomechanics.

With our support, Delsys China hosted the symposium on Motor Control in Speech, Voice and Swallowing on July 2nd 2019 in Beijing, China. The symposium on "head, cervical muscle research on the application of voice, speech and whimper" featured 40 internationally distinguished experts and scholars from more than 10 universities and hospitals.

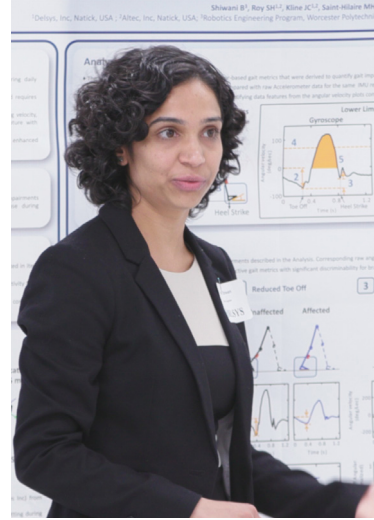
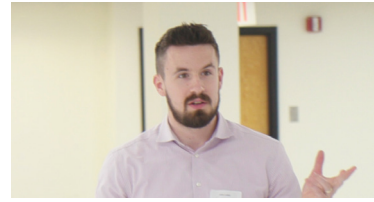
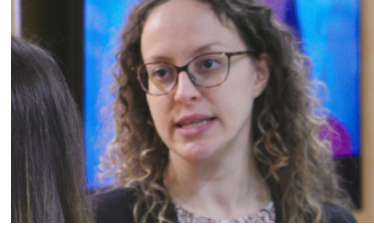
## Seminars

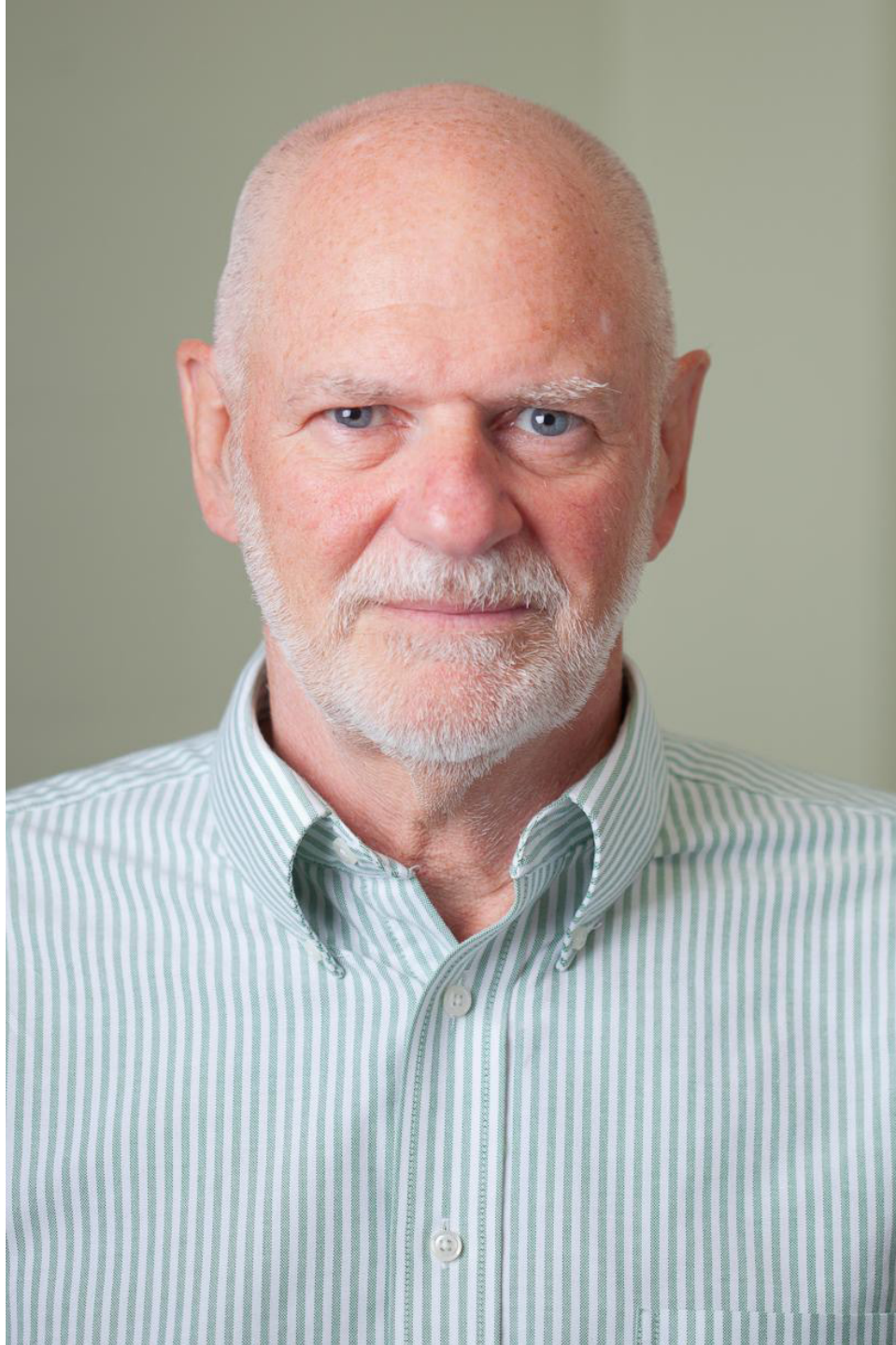
**Rebecca Miksad, MD, MPH**  
Senior Medical Director, Research Oncology at Flatiron Health  
Boston, Massachusetts

Her talk will focus on Real-World Research Oncology at the intersections between Health Services Research, Outcomes Research, and Decision Science.



# We are proud to support the biomechanics community





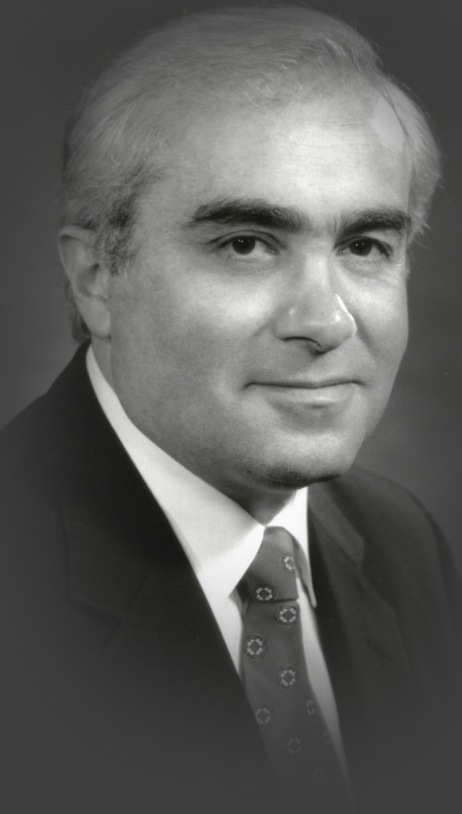
## **De Luca Foundation Thanks ISB President Prof. Joseph Hamill**

**The De Luca Foundation thanks Prof. Joseph Hamill, ISB President 2017-19, for his long-standing support of the Motor Control Group initiative and the vision of the De Luca Foundation.**

# Upcoming Events

All researchers involved in biomechanics, motor control, and electromyography are encouraged to look into our opportunities for 2020.

AWARD/EVENT	OPENING DATE
<b>Honor Excellence in Research</b>	
Delsys Prize	April 6, 2020
<b>Support for Research</b>	
App Development Competition	To be announced
<b>Support for Meetings</b>	
International Foot & Ankle Biomechanics Meeting at São Paulo – Brazil ( <b>i-FAB</b> )	April 5-8, 2020
ACSM's 67th Annual Meeting at San Francisco, California – USA ( <b>ACSM</b> )	May 26-30, 2020



**Professor Carlo De Luca (1943-2016)**  
Founder, The De Luca Foundation  
Professor Emeritus, Boston University  
Founder, Delsys, Inc. and Altec, Inc.

**DE LUCA FOUNDATION**  
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