

**The Future Belongs to Creative Thinkers
in Movement Sciences**



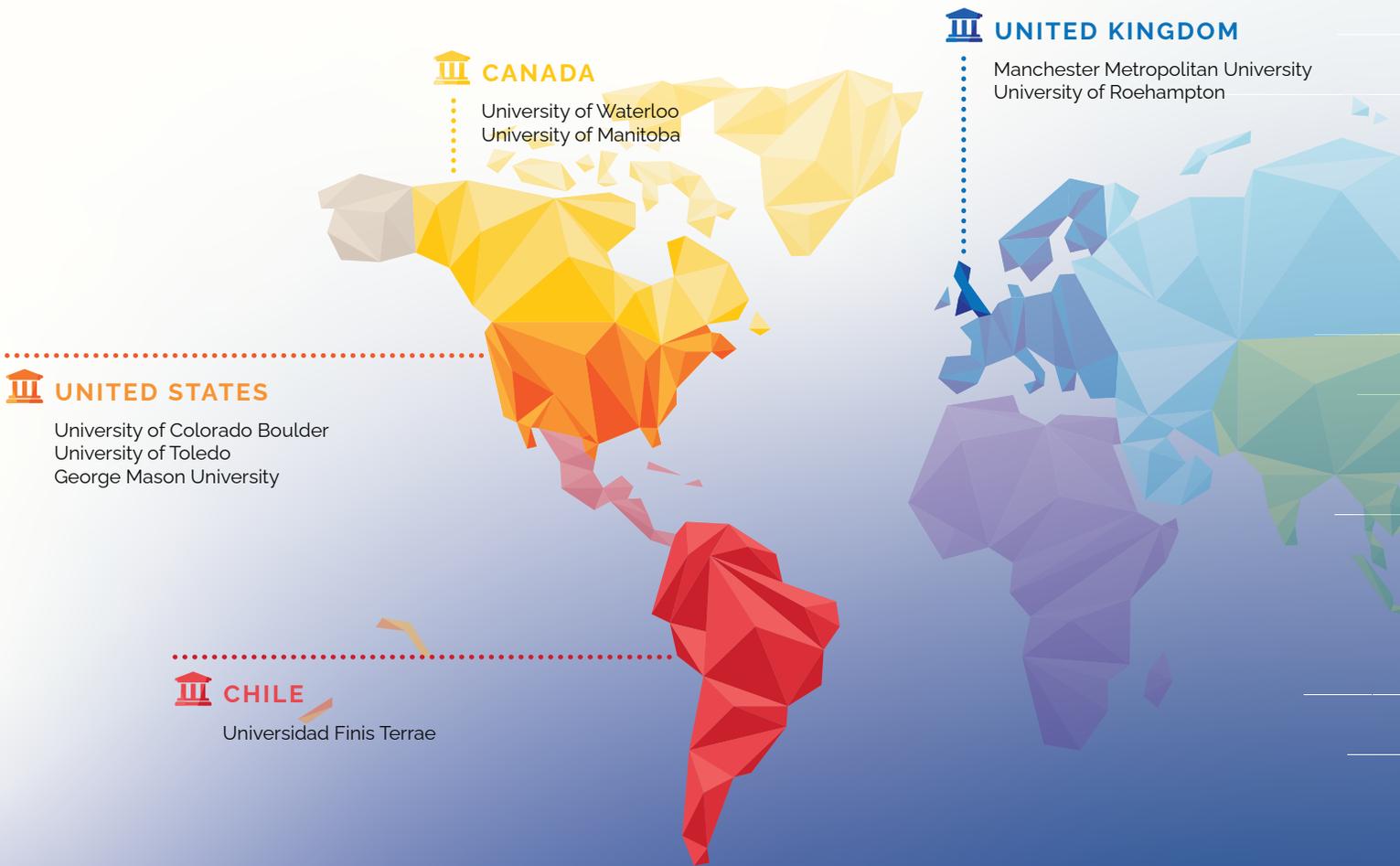
**Supporting Researchers Worldwide to Foster Innovation
in Electromyography and Human Movement Sciences**

www.delucafoundation.org

The De Luca Foundation is a 501c(3) tax exempt organization

Statement of Activities

AWARD DETAILS	VALUE (USD)
 Support for Students and Professionals	
Training Initiative	
 Support for Research	
Rethink EMG Challenge (Granted 2022)	\$ 160,000.00
Delsys Prize # of Recipients: 1 Trigno NeuroMap System w/ 2x Galileo Sensors + NeuroMap SW, 6x Avanti Sensors, 1x LabChart license, \$3,000.00 USD cash	\$ 29,000.00
Mobile Equipment Donation Initiative # of Final Recipients: 3 2-Sensor Trigno Mobile System or Hand Performance Monitor per recipient (~\$3,500.00 USD value each)	\$ 10,500.00
Emerging Scientist Award Dr. Tom Burke	\$ 2,500.00
Other Support	
Shriners Hospitals 2021 Walk for Love Virtual	\$ 250.00



Rethink EMG Challenge

The Rethink EMG Challenge asked researchers and clinicians to rethink the role of EMG in improving performance outcomes in combination with standard measurement tools.

PHASE I BY THE NUMBERS:


38
 COUNTRIES


186
 INVESTIGATORS


8
 FINALISTS

The 18th Annual Delsys Prize Winner

Dr. Femke Dijkstra
Antwerp University Hospital (Belgium)

The Delsys Prize recognizes advancements in the understanding, techniques/technologies or applications of the Electromyographic signal.



Dr. Dijkstra's winning proposal, titled, "**REM sleep without atonia as prodromal neurophysiological sign of Parkinson's disease,**" was selected from a field of 134 entries from 32 countries, with entries representing a broad range of interests in diverse areas such as Biomechanics, Physiology, Signal Processing, Robotics, Rehabilitation, and many others.

We thank the Delsys Prize Review Board Members for their contributions towards selecting the winner: Dr. Helen Huang (USA); Dr. Bernie Hudgins (Canada); Dr. Jean-Benoit Morin (France); and Dr. Karl Zelik (USA).



2021 Carlo De Luca Emerging Scientist Award Winner

Dr. Tom Buurke
KU Leuven (Belgium)

On behalf of ISB, we have the great pleasure to announce that the winner of the 2021 Carlo De Luca Emerging Scientist Award sponsored by the De Luca Foundation is Dr. Tom Buurke, KU Leuven, Belgium, for his work titled "**Predictive simulations of hemiparetic gait to explore the effects of muscle weakness on walking asymmetry and energetics**".

Training Initiative

The De Luca Foundation, in partnership with Delsys, Inc., launched a training initiative for research-minded undergraduate and graduate students.



This initiative provides an educational opportunity for Trainees to learn from real-world experiences while performing cutting-edge industry research that directly contributes to the development of next generation sensing solutions for improving human health, communication, and movement.

DLF Trainees will have the opportunity to work in an industrial R&D setting under the mentorship of Research Advisors at Delsys in close collaboration with their academic research advisors. This DLF initiative provides year-round training opportunities through co-ops and fellowships that span 4-, 6-, or 12-month terms with the potential for Trainees to translate their experience into a research capstone, practicum, thesis, or dissertation in collaboration with their academic institution.

Program Benefits

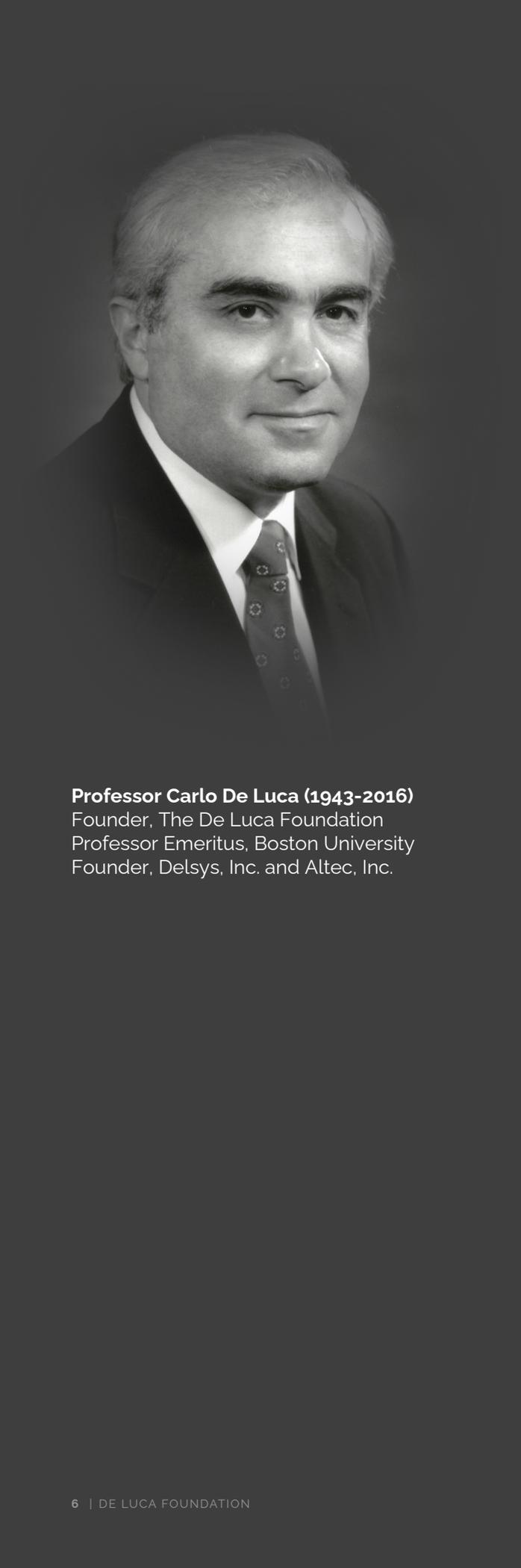
-  **Impactful Work**
-  **Tailored Mentorship**
-  **Professional Development Opportunities**
-  **Financial Support**

Mobile Equipment Donation Initiative

The Mobile Equipment Donation Initiative was an opportunity for researchers, clinicians, and educators to incorporate small-scale EMG into their projects with quick and powerful outcomes, through donations of mobile EMG equipment.

We are pleased to present the following winners of this Initiative:

NAME	COUNTRY
Dr. Ganesh Bapat	India
Dr. Francois Hug	France
Dr. Charalambos Charalambous	Cyprus
Dr. Pablo Iturralde	Uruguay
Ms. Elissa Embrechts	Belgium
Dr. Lisa MacFadden	USA
Dr. Leonardo Elias	Brazil
Dr. Jose Manresa	Argentina
Dr. Brendan O'Brien	Australia
Dr. Thomas Engleder	Germany
Dr. Irene DiGiulio	UK



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

Upcoming Events

As we learn to navigate a post-COVID world in 2022, the De Luca Foundation will continue to find meaningful ways to support the Biomechanics community in 2022.

We encourage all professionals and students to visit our website and social media accounts for announcements of campaigns, initiatives, and meetings (virtual or in-person, pending restrictions)..

DE LUCA FOUNDATION
contact@delucafoundation.org

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