

www.ismpb.org

Message from the President

It is with great pleasure that I write my first ISMPB President's message. I look forward to working with our current Board and with our membership over the coming two years.

Firstly, though, I need to thank our outgoing president, Malcolm Granat. Malcolm was the President of the society for the last four years and during that time he has worked tirelessly for the society including during the stressful period over the last vear and a half where COVID has blanketed our lives and presented many challenges for small societies. I'd like to thank him for all his hard work and leadership over the last 4 years. Luckily, we do not lose him off the board as he will now become past president so the society will continue to benefit from his wisdom.

I would also like to welcome Dinesh John on to the Board. Dinesh works at Northeastern University and his research in



International Society for the

Measurement of Physical Behaviour

ble sensors to measure physical behaviour. He has a long association with ISMPB and has attended many ICAMPAM conferences in the past.

Speaking of ICAMPAM conferences, our first ever online ICAMPAM was held in June this year and was a great success for the society. Much interesting research was presented, and we got to try newer ways of interacting as researchers. The online Poster session was a great example of this with the opportunity to virtually wander the poster halls in Gather.town.

Newsletter

September, 2021

SOCIAL MEDIA



KEEP UP TO DATE ON OUR WEBSITE http://www.ismpb.org/

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VIRTUAL CONFERENCE JUNE 23-24, 2021

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Currently plans are afoot for our next in person ICAMPAM in Colorado in June next year. While we are still experiencing restrictions to varying degrees across the world, we will endeavor to make sure all our members have some access the great research that will be presented. Our conference committee are busy creating an excellent program and setting themes. Look out for information about ICAMPAM 2022 over the next few months.

Bronwyn Clark



Message from the Past-President

It is somewhat odd to be writing this as the Society's past President, but this has given me time to reflect. Over the last four years, there have been significant challenges, changes and developments. The main challenge for us as a Society being the pandemic. Challenges prompt us to adapt and innovate, and I feel that we have shown that we can innovate, developing new ways to maintain and grow our activities. Over the last year, we have gone online with ICAM-PAM and a number of workshops and seminars. These were more successful than we envisaged, and as a Board, we learnt a lot about how we could do things in new ways and do new things. It may be that "the only constant in life is change", but it is how we meet these changes that is important, and you have shown that our Society can turn these changes into opportunities for growth.

It has not only been a privilege and an honour to serve as the Society's President, but it has also been a pleasure and even enjoyable! What has made it so has been you, the membership, participating, engaging in debate, providing constructive criticism and making the social aspects of Society such a "blast". As the outgoing President, I would like to take this opportunity to thank all members of the Board (present and past). All of them have worked tirelessly and enthusiastically for the Society. I would also like to wish, Bronwyn Clark our new President, an enjoyable time at the helm. Bron will not only enjoy the challenges, but will take the lead in the development of the Society in the next stages of our journey. As past President, I very much look forward to continuing this journey with you.

Malcolm Granat



ICAMPAM 2021: Fist Virtual Meeting



Overview:

- ⇒ 4 pre-conference workshops
- \Rightarrow 2 days
- \Rightarrow 5 Live Keynotes
- ⇒ 12 Pre-recorded Keynotes
- \Rightarrow A Live and Lively Debate
- \Rightarrow 151 Posters
- ⇒ Contests and Social Interactions

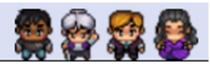


countries!

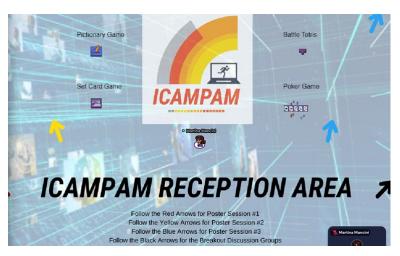


Live poster sessions and social:

- ⇒ We used Gather.town for 3 Live poster sessions and a social event
- ⇒ Each poster session was attended by at least 60 attendees







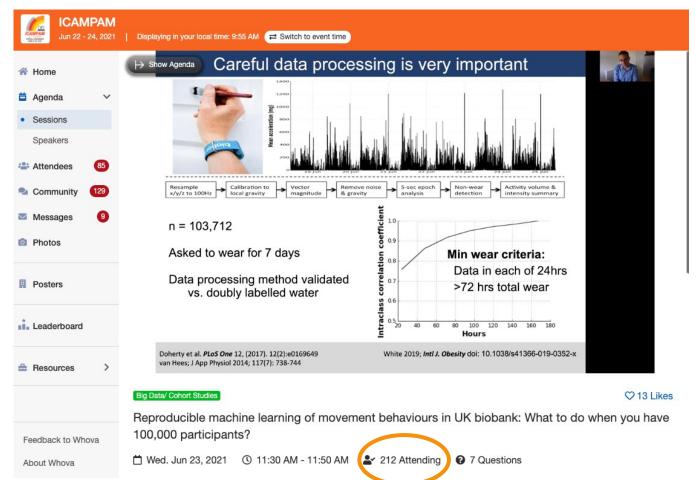
Live poster session on Gather.town

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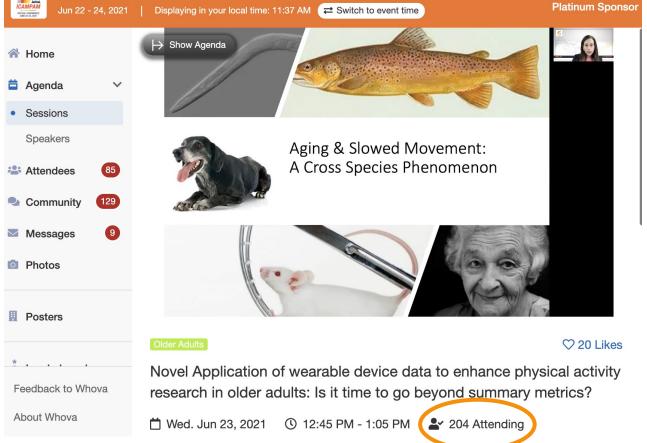
Our talks with over 200 attendees!!



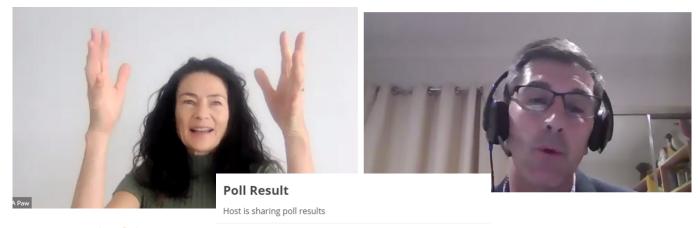
Prof. Aiden Doherty, University of Oxford



Prof. Jennifer Schrack, John Hopkins University **ICAMPAM** PAM Jun 22 - 24, 2021



Debate: "Is it time to wave goodbye to accelerometer threshold?"



Prof. Mai Chin A Paw, 1. Is it time to wave goodbye to accelerometer threshold? Amsterdam UMC

(Summary after Debate)

Yes

No



Prof. Stewart Trost, Queensland University of Technology

5

ICAMPAM 2021 STUDENT POSTER AWARDS



Applications theme:

- ⇒ **1st Place:** Fabienne AU Fox, German Center for Neurodegenerative Disease. Title: "The relation between accelerometer-derived physical activity and brain structure: A population-based study"
- ⇒ Runner up: Tal Yahalom-Peri, Sheba Medical Center, Israel. Title: "Comparison of Physical Function and Incidental Physical Activity Between Two Categorical Blood Glucose Levels in a Target Range Amongst People with Type 2 Diabetes"

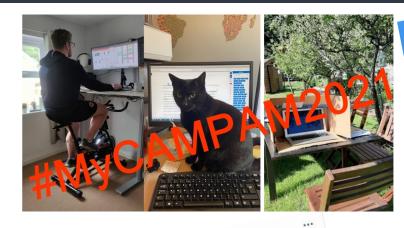
Technology and Algorithm Development theme:

- ⇒ **1st Place:** Johanna O'Day and Marissa Lee, Stanford University. Title: "Detecting freezing of gait using raw inertial sensor data from people with Parkinson's disease"
- ⇒ Runner up: Serena Moscato, University of Bologna. Title: "Effect of physical activity on PPG signal quality"

Measurements and Analysis theme:

- ⇒ **1st Place:** Kristin Suorsa, University of Turku. Title: "Changes in 24-hour movement behavior during the transition to retirement: The Finnish Retirement and Aging Study (FIREA)"
- ⇒ **Runner up:** Adrien Chanteau, University of Rennes. Title: *"Comparison of activity monitors and bout-level analysis methods in the study of daily-life walking pattern in older adults"*

VIRTUAL ICAMPAM ON SOCIAL MEDIA





Jason Wilson @JJW Research

Looking forward to presenting a substudy from the @SITLESSEU project at #ICAMPAM2021 @ismpb_org on physical activity fragmentation and physical function in older adults. Say hi to mini-me!



Mark Tully and Mathias_Skjødt 3:13 AM · Jun 24, 2021 · Twitter for Android

5 Retweets 1 Quote Tweet 13 Likes







...

ISMPB Å @ismpb_org

Shall we have a Twitter poll? What's your opinion of the current debate - is it time to wave goodbye to accelerometer thresholds? #ICAMPAM2021 #Accelerometers #CutPoints #PhysicalActivity **#SedentaryBehaviour**

Let's keep them 😃	50%				
Get rid of them 😃	50%				
14 votes · Final results					
2:09 AM · Jun 24, 2021 · Twitter for iPhone					

4 Retweets 1 Quote Tweet 6 Likes



@Nicholas_Kuzik

I asked someone at #ICAMPAM2021 if they:

"Wanted me to walk them through my virtual posters"

I felt like they were fixated on my use of the word "walk" but overall they seemed woo'd @ismpb_org @haloresearch





- You can still watch posters and keynotes lectures on Whova until the end of September!
- Members will have access to keynote lectures after the end of September on the ISMPB website!



NEW ISMPB BOARD ADDITIONS/CHANGES

As part of the general meeting held at the conference, a few changes were made to the ISMPB board to reflect the membership votes. For information about all the current board members, please visit our website.

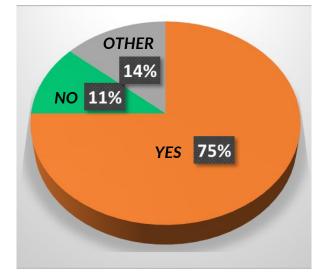
- \Rightarrow Alan Donnelly has assumed the role of vice-president
- \Rightarrow Malcolm Granat has assumed the role of past president
- ⇒ Dinesh John was elected as new board member
- ⇒ Karin A Pfeiffer has assumed the role of treasurer and Martina Mancini has assumed the role of secretary

2021 ICAMPAM POST-CONFERENCE EVALUATION

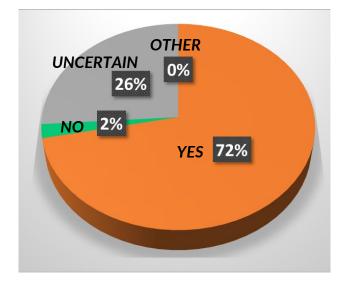
Did you enjoy attending the ICAMPAM Conference in 2021?

A great deal more than expected	25
A little more than expected	15
As expected	5
A little less than expected	2
great deal less than expected	0

For future in-person conference experiences, would you like any form of virtual poster included?



For future conferences would you like ICAM-PAM to offer a hybrid option where you could attend in-person or virtually?



Participation in this conference has helped me make connections that will assist me in my work, research or studies.

Strongly agree	8	17.8%
Agree	26	57.8%
Neither agree nor disagree	9	20%
Disagree	1	2%
Strongly disagree	0	0%
Other	1	2%

ICAMPAM 2022



SAVE THE DATE

JUNE 21-24, 2022 KEYSTONE LODGE & SPA COLORADO, USA



Prof. Ed Melanson ICAMPAM 2022 Co-chair



Dr. Kate Lyden ICAMPAM 2022 Co-chair







ICAMPAM abstracts now published in a special issue of JMPB!



We have heard elsewhere in this newsletter about the success of the virtual ICAMPAM conference in June. *This year, for the first time, all of the abstracts from the 2021 ICAMPAM conference are published in a special issue of JMPB. As editor, I feel privileged and excited to showcase all the fantastic work that was presented at the conference.*

As well as covering the performance of various body-worn sensors to assess a range of physical behaviours, the main September 2021 issue of JMPB features work using commercial wearables to report on changes to physical behaviour of workers during the first COVID19 lockdown in the UK – something that is of worldwide interest as we reflect on the impact of different strategies to control and contain the virus.

Finally, a reminder to take advantage of your membership benefits if you want to publish open access in JMPB. Authors can opt in to open access and ISMPB members get a 50% discount.



Editor-in-chief, Dr. Philippa Dall at philippa.dall@gcu.ac.uk.

Journal for the Measurement of Physical Behaviour Volume 4, Issue 2 (June 2021)

Original Research:

- Application of Convolutional Neural Network Algorithms for Advancing Sedentary and Activity Bout Classification. Supun Nakandala, Marta M. Jankowska, Fatima Tuz-Zahra, John Bellettiere, Jordan A. Carlson, Andrea Z. LaCroix, Sheri J. Hartman, Dori E. Rosenberg, Jingjing Zou, Arun Kumar, and Loki Natarajan
- Agreement Between Different Days of activPAL and Actigraph GT3X Measurement of Sedentary Behavior and Physical Activity During the School Hours in Elementary Children. Luciana L.S. Barboza, Larissa Gandarela, Josefa Graziele S. Santana, Ellen Caroline M. Silva, Elondark S. Machado, Roberto Jerônimo S. Silva, Thayse N. Gomes, and Danilo R. Silva
- Estimates of Physical Activity in Older Adults Using the ActiGraph Low-Frequency Extension. Hilary Hicks, Alexandra Laffer, Kayla Meyer, and Amber Watts
- Sequential Activity Patterns and Outcome-Specific, Real-Time, and Target Group-Specific Feedback: The SPORT Algorithm. Nathalie Berninger, Gill ten Hoor, Guy Plasqui, and Rik Crutzen
- Shuteye Time Compared With Bedtime: Misclassification of Sleep in Adolescent Females. Jillian J. Haszard, Tessa Scott, Claire Smith, and Meredith C. Peddie
- Comparing Counts of Park Users With a Wearable Video Device and an Unmanned Aerial System . Richard R. Suminski, Gregory M. Dominick, and Matthew Saponaro
- Validity of Two Awake Wear-Time Classification Algorithms for activPAL in Youth, Adults, and Older Adults. Jordan A.
 Carlson, Fatima Tuz-Zahra, John Bellettiere, Nicola D. Ridgers, Chelsea Steel, Carolina Bejarano, Andrea Z. LaCroix, Dori E. Rosenberg, Mikael Anne Greenwood-Hickman, Marta M. Jankowska, and Loki Natarajan

- Agreement Between Different Agreement Physical Activity, Sedentary Behavior, and Time in Bed Among Finnish Adults Measured 24/7 by Triaxial Accelerometry. Pauliina Husu, Kari Tokola, Henri Vähä-Ypyä, Harri Sievänen, Jaana Suni, Olli J. Heinonen, Jarmo Heiskanen, Kaisu M. Kaikkonen, Kai Savonen, Sami Kokko, and Tommi Vasankari
- Exploring Machine Learning Models Based on Accelerometer Sensor Alone or Combined With Gyroscope to Classify Home-Based Exercises and Physical Behavior in (Pre)sarcopenic Older Adults. Lenore Dedeyne, Jorgen A. Wullems, Jolan Dupont, Jos Tournoy, Evelien Gielen, and Sabine Verschueren
- Are Congruent for Children's Moderate-to-Vigorous and Higher Intensity Physical Activity. Claudio R. Nigg, Xanna Burg, Barbara Lohse, and Leslie Cunningham-Sabo
- Accelerometry and Self-Report Are Congruent for Children's Moderate-to-Vigorous and Higher Intensity Physical Activity. Claudio R. Nigg, Xanna Burg, Barbara Lohse, and Leslie Cunningham-Sabo

Original Research:

• Examining the Contribution of Dog Walking to Total Daily Physical Activity Among Dogs and Their Owners. Katie Potter, Robert T. Marcotte, Greg J. Petrucci, Caitlin Rajala, Deborah E. Linder, and Laura B. Balzer

Volume 4, Issue 3 (Semptember 2021)

Original Research:

- Converting Raw Accelerometer Data to Activity Counts Using Open-Source Code: Implementing a MATLAB Code in Python and R, and Comparing the Results to ActiLife. Ruben Brondeel, Yan Kestens, Javad Rahimipour Anaraki, Kevin Stanley, Benoit Thierry, and Daniel Fuller
- Validity of the iPhone M7 Motion Coprocessor to Estimate Physical Activity During Structured and Free-Living Activities in Healthy Adults. Nicola K. Thomson, Lauren McMichan, Eilidh Macrae, Julien S. Baker, David J. Muggeridge, and Chris Easton
- Is the Polar M430 a Valid Tool for Estimating Maximal Oxygen Consumption in Adult Females? Kevin E. Miller, Timothy R. Kempf, Brian C. Rider, and Scott A. Conger
- Association of Individual Motor Abilities and Accelerometer-Derived Physical Activity Measures in Preschool-Aged Children.
 Becky Breau, Berit Brandes, Marvin N. Wright, Christoph Buck, Lori Ann Vallis, and Mirko Brandes
- Calibration of the Online Youth Activity Profile Assessment for School-Based Applications. Gregory J. Welk, Pedro F. Saint-Maurice, Philip M. Dixon, Paul R. Hibbing, Yang Bai, Gabriella M. McLoughlin, and Michael Pereira da Silva
- Changes in Device-Measured Physical Activity Patterns in U.K. Adults Related to the First COVID-19 Lockdown. Andrew P. Kingsnorth, Mhairi Patience, Elena Moltchanova, Dale W. Esliger, Nicola J. Paine, and Matthew Hobbs
- Comparison of Fitbit One and ActivPAL3TM in Adults With Multiple Sclerosis in a Free-Living Environment. Golnoush Mehrabani, Douglas P. Gross, Saeideh Aminian, and Patricia J. Manns
- Association Between Accelerometer and Parental Reported Weekend and Weekday Sleeping Patterns and Adiposity Among Preschool-Aged Children. Bridget Coyle-Asbil, Hannah J. Coyle-Asbil, David W.L. Ma, Jess Haines, and Lori Ann Vallis

Technical Note:

• Protocol and Data Description: The Free-Living Activity Study for Health. Paul R. Hibbing, Nicholas R. Lamoureux, Charles E. Matthews, and Gregory J. Welk

MEMBERSHIP



This ISMPB membership term runs from October 1, 2020 to September 30, 2022.

Membership fees support the mission of ISMPB in creating a vibrant community bringing together people from a wide variety of backgrounds and expertise, including researchers, clinicians, therapists, signal analysts, computational scientists and commercial companies.

Link http://www.ismpb.org/membership/

JOIN TODAY!

Member Benefits:

- ⇒ Reduced registration rates at official meetings/webinars organized by ISMPB, including the biannual ICAMPAM
- ⇒ Access to online subscription to the Journal for the Measurement of Physical Behaviour, the official journal of ISMPB, published quarterly by Human Kinetics
- ⇒ Join one of the ISMPB Committees and get directly involved in the activities of the society
- \Rightarrow Vote on Society matters and elections
- ⇒ Join colleagues from all over the world at the ISMPB meetings/e-meetings and create a global network
- ⇒ Quarterly e-newsletter with most important information from the Society
- ⇒ Unlimited Email Addresses

Fees:

Category	Dues
Student	\$75
Regular / Post Doc	\$150
All dues are in USD	

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