

ISMPB

International Society for the
Measurement of Physical Behaviour



www.ismpb.org

Message from the President

Over the last few months, we have been concentrating on our preparations for ICAMPAM. We now have our final programme in which we have 5 keynote speakers, 15 pre-conference workshops, 6 symposia, 102 podium presentations and 127 posters. There will also be student awards for oral and poster presentations, with cash prizes. We also have a busy social programme and as part of this our Early Career Researchers have organised a separate social event on Wednesday with a cycling theme. ICAMPAM2019

promises to be as a very busy and informative meeting, but with plenty of time for meaningful networking and socialising.

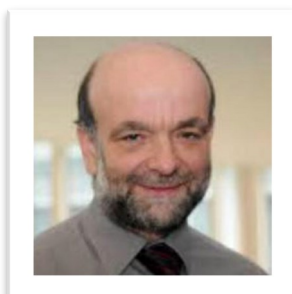
Not only do we have a very busy pre-conference workshop day, with a broad range of topics, but immediately following ICAMPAM there will be a two-day meeting of the ProPASS consortium. ProPASS (Prospective Physical Activity, Sitting, and Sleep) is an international consortium bringing together studies using thigh-worn accelerometers.

We have been working on trying to organise an ISMPB event in the year between ICAMPAMs, and I pleased to tell you that will be able to announce the 2020 event at Maastricht, as well as revealing the location for ICAMPAM2021.

While arrangements for ICAMPAM proceeds apace, our other main activity, our Journal, has been continuing to grow. Issue 1 of Volume 2 is now available. I hope that you will consider submitting to our journal some of the work that you will have presented at ICAMPAM.

I am very much looking forward to seeing all in Maastricht and fully taking part in the scientific and social aspects of the meeting!

Malcolm



ISMPB Newsletter

April, 2019



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KEEP UP TO DATE ON OUR WEBSITE

<http://www.ismpb.org/>

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Member Profile

Matthew Ahmadi

Everybody has a unique career path to their current destination. Can you share some of your stops along the way?

Like most researchers, I've moved around a bit in a relatively short span of time. I've been very fortunate to have studied under some very dedicated researchers which has led to invaluable experiences with each stop building off the previous.

I completed my Bachelor's of Science at the University of Arizona and as an undergraduate, I was fortunate to have worked with both Dr. Douglas Keen and Prof. Lucinda Rankin. There I was introduced to some of the physical activity and health research conducted by Dr. Sofiya Alhassan and I took an immediate interest in her work.

I then moved to Massachusetts for the chance to complete my Master's of Science at the University of Massachusetts Amherst with Dr. Alhassan. I am appreciative of the endless hours Dr. Alhassan spent with me to teach and train me. In addition, my interactions with fellow graduate students helped to broaden my scope as a young researcher. While in Dr. Alhassan's laboratory, I was introduced to both Dr. John Sirard, and Prof. Catrine Tudor-Locke and was fortunate to have had them as members on my advisory committee. These enriching interdisciplinary experiences set me up for my current role.

After my time at Umass, I moved to Brisbane Australia for the opportunity to work with Prof. Stewart Trost. Having the opportunity to learn from and work with Prof. Trost has been an incredible experience. I'm grateful for the amount of time he has devoted to teaching me given his busy schedule and position as one of the directors at the Centre for Children's Health Research, which is a flagship partnership facility between two universities, the state government and a research institute.

Tell us about a current project you are working on.

The research group I am apart of is currently completing a project evaluating novel techniques of measuring physical activity in children with cerebral palsy. This is a collaborative project with colleagues at a few universities in the United States. Increased accuracy of measurement will have important clinical implications in this population, especially as we begin to understand more about their cardiovascular and metabolic health.



What do you think are the most important research advancements in this area?

One of the recent advancements that I think is notable is the recognition of the temporal nature and co-dependence of physical activity, sedentary behaviour and sleep. Understanding the combined relationship that these behaviours have on health outcomes through an integrative approach will help to inform future evidence-based programs and interventions for health behaviour change.

Have you participated in any ISMBP events? If so, can you please describe your experiences?

I attended the most recent ICAMPAM Conference in Bethesda, Maryland. I found the experience to be tremendously enjoyable and enriching. Everyone was supportive and encouraging, and the research that was presented was informative and inspiring.

In the future, what would you like to see from the ISMPB?

I think ISMPB does a great job of providing a means and opportunity for researchers from multiple disciplines to collaborate and disseminate innovative methods. I am keen to see the society continue to grow and expand.

matthewnguyen.ahmadi@hdr.qut.edu.au

Introducing *PROPASS*

The Prospective Physical Activity, Sitting, and Sleep consortium (ProPASS) is an international research collaboration platform that aims to bring together existing and future observational studies of thigh-worn accelerometers. Those methods are increasingly used in large scale epidemiological studies. Thigh-worn placement is unique among accelerometry methods for its capacity to record information on physical activity volumes as well as posture allocation data simultaneously.



The objectives of the consortium are:

- to establish a pooled data resource on physical activity, posture allocation, sleep, and health outcomes
- to develop methods for processing, harmonising, and pooling data of existing such studies
- to develop methods for collecting data for future studies (prospective harmonization)

The ultimate scientific objective of ProPASS is to produce evidence on the effects of PA, sitting, and sleep on long-term health outcomes and longevity. As of February 2019, ProPASS is supported by twelve international cohorts totalling over 70,000 participants. The ProPASS cohorts are also rich in health outcome data, many contain genotypic information, and most can be linked to administrative health and mortality records, opening a endless possibilities for generation of new knowledge.

ProPASS is looking forward to hearing from researchers from any discipline who have collected or consider collecting thigh-worn accelerometry data in observational studies, and scientists with an interest in health-related data consortia.

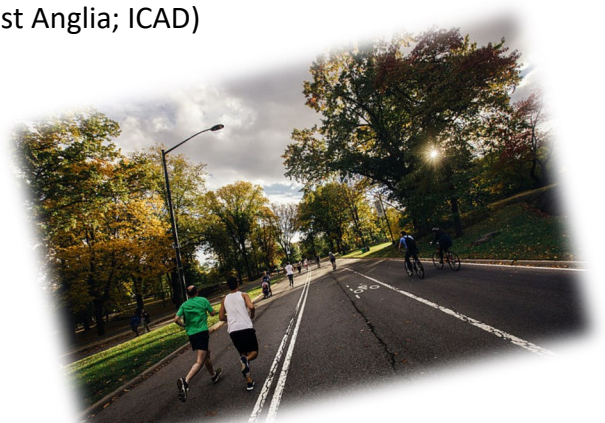
2nd ProPASS Meeting Maastricht

The 2nd ProPASS meeting will take place right after 6th International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM) meeting which is also held in Maastricht on 25-28th of June. The meeting will be a 2-day event and will take place on 28th and 29th of June. The program will include sessions on the following main themes:

- Building successful accelerometry consortia: (Prof Ulf Ekelund, NIH, Norway; ICAD)
- Maximising the possibilities of thigh-worn accelerometers to provide information on physical activity, postures and sleep (Assoc. Prof. Kerstin Bach, NTNU university, and HUNT4 cohort. Norway; Prof. Andreas Holtermann, National Research Centre for the Working Environment, Copenhagen)
- ProPASS data sharing and remote analysis technologies, Harmonisation of accelerometry and non-accelerometry data (Dr Andrew Atkin, University of East Anglia; ICAD)
- Involving early career researchers in ProPASS

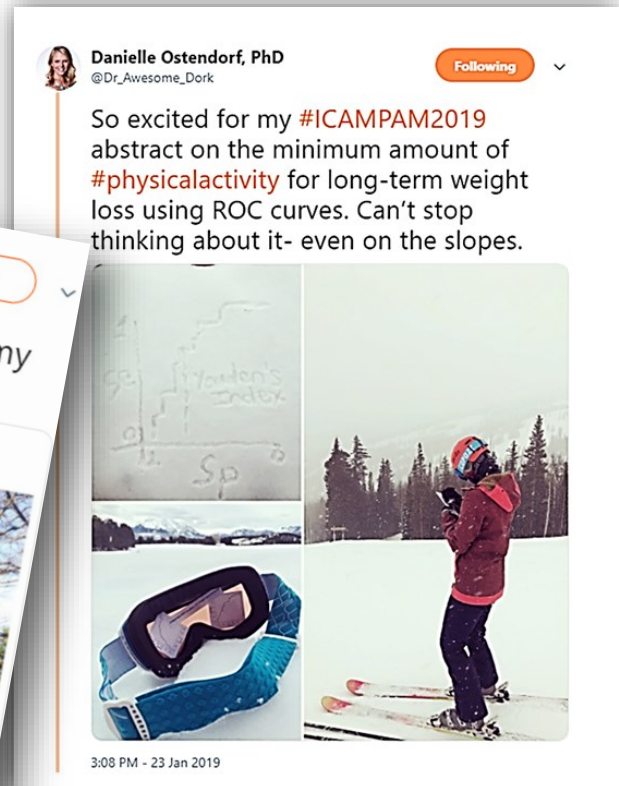
Website:

<https://health.gov/paguidelines/second-edition/report.aspx>

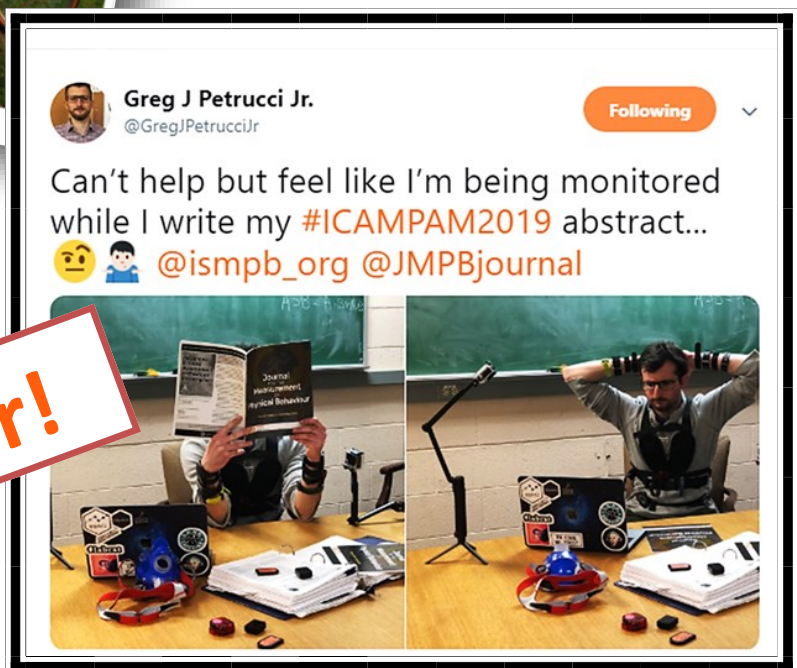


SOCIAL MEDIA ICAMPAM COMPETITION

- ⇒ ISMPB ran a **Twitter Campaign** to find the best Tweet to show a researcher writing their abstract for **ICAMPAM 2019**.
- ⇒ We had some great entries!



Winner!



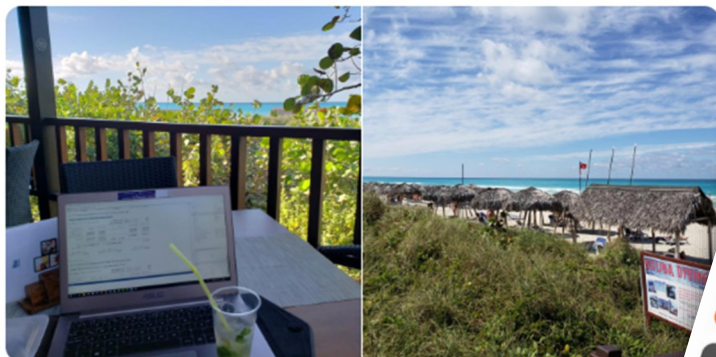


Nicolas Aguilar

@nicolasaguilar

Following

To beach or not to beach! I got the results and now "perfect time" to finish my abstract for #ICAMPAM with @damianchp in Cuba @ismpb_org #ICAMPAM2019



1:54 PM - 31 Jan 2019 from Cuba



AlexClarkeCornwell

@barmyalex

Following

Getting some last minute feline help with my #ICAMPAM2019 abstract. Who knew that cats loved sequence analysis so much?! @ismpb_org @MalcolmGranat @ProfPennyCook @C_Edwardson

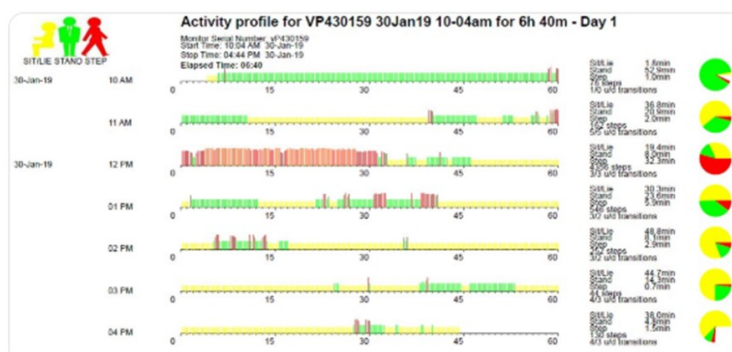


Philippa Dall

@pmdall73

Follow

@ismpb_org This was me writing my abstract for #ICAMPAM2019 yesterday, including an active "thinking" break...



1:54 PM - 31 Jan 2019

**Are you confident
at using social
media?**

Drop by the social media desk at ICAMPAM and have one of our social media group help you make a start. You can then tweet all the highlights of the conference.

ICAMPAM is Coming!



Student Awards

ICAMPAM is pleased to announce there will be one award for the top student poster presentation and runner up, and one award for the top student oral presentation and runner up. The prize for each is €500.

Judging and presentation will be done at ICAMPAM by members of the Scientific Program Committee.

For more information visit our website.



Early Career Researcher Event

Get to know Maastricht as a local!

Did you know that there are approximately 17 million people living in the Netherlands and more than 23 million bikes? In the 2019 edition of the Early Career Researcher event we will be doing a bike tour. After a long day of conference, join us on two wheels and get to know the most important sights of the city with a local guide.

Plan:

7 pm: Meet at The Student Hotel. ISMPB will pay for snacks & drinks to make sure you don't start the tour on an empty stomach

7.15 – 9.15 pm: bike tour with a local guide

9.30 pm: join the rest of the ICAMPAM community at John Mullin's pub. The kitchen will be open until 10 p.m. to give you the chance to grab some late dinner.

Please note: dinner is at your own expense

Date: WEDNESDAY, JUNE 26

Time: 7:00 PM – 9:30 PM

Cost: \$35 (USD) per person for the bike tour



Stay up to date: <https://ismpb.org/>

Register now!

Registration deadline:

May 26, 2019

Regular / Post Doc Member: \$675

Regular / Post Doc Non-Member: \$825

Student Member: \$575

Student Non-Member: \$650

Keynote speakers

More information: <https://ismpb.org/keynote-speakers/>



Lorenzo Chiari



Pedro Hallal



Manos Stamatakis



Frank Scheer



Roy Raymann



Taíja Finni

Journal for the Measurement of Physical Behaviour Volume 2, Issue 1 is available online!!



Editorial: *A Method to Minimize Loss of Accelerometer Data to Improve Assessment of Device-Based Measurement of Physical Activity*
Patty Freedson

Original Research

Comparing Methods for Using Invalid Days in Accelerometer Data to Improve Physical Activity Measurement
Hotaka Maeda, Chris C. Cho, Young Cho, Scott J. Strath

Effects of Brief Intermittent Walking Bouts on Step Count Accuracy of Wearable Devices
Lindsay P. Toth, Susan Park, Whitney L. Pittman, Damla Sarisaltik, Paul R. Hibbing, Alvin L. Morton, Cary M. Springer, Scott E. Crouter, David R. Bassett

Validity of Smartphone Applications at Measuring Steps: Does Wear Location Matter?
Merrill D. Funk, Cindy L. Salazar, Miriam Martinez, Jesus Gonzalez, Perla Leyva, David Bassett Jr., Murat Karabulut

Test-Retest and Inter-Monitor Reliability of The Atlas Activity Monitor For Assessing Resistance Training Exercises

Alexander H.K. Montoye, Scott A. Conger, Joe R. Mitrzyk, Colby Beach, Alecia K. Fox, Jeremy A. Steeves

Measuring Time in the Office Using Bluetooth Sensors: Feasibility and Validity Considerations
Bronwyn K. Clark, Nyssa T. Hadgraft, Takemi Sugiyama, Elisabeth A. Winkler

Our members can access **JMPB** at <https://journals.humankinetics.com/loi/jmpb>. We invite you to submit manuscripts for consideration for publication. Details about the journal and instructions for submitting papers can be found at https://mc.manuscriptcentral.com/hk_jmpb. If you have ideas for special issues or a few papers on specific topics of interest from a seminar, workshop, symposium etc., please prepare a short proposal that includes name of guest editor, description of the general content of the special issue, authors and working paper titles and timeline. Submit these proposals to me at psf@kin.umass.edu. Our journal operations committee will review these special issue proposals for consideration for publication.

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ISMPB Job Board!!

ISMPB now has a **Job board** on its website.

This is the ideal place to advertise job vacancies and research opportunities related to objective measurement and quantification of free-living physical behavior.

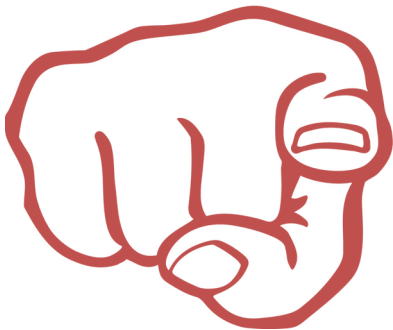
Access to the Job Board is free to ISMPB members.

For non-members the prices are as follows:

- \$150 for one job advertisement
- \$100 + VAT for each subsequent job.

<https://ismpb.org/job-board/>

ISMPB needs you!



ISMPB is looking for a member who could monitor the content of the website and suggest changes or improvements. They would not have to make the changes as we have web designers who can do that. This position would be part of the communication committee. This is a good way to be involved in your society where the work load will not be high. If you are interested please contact **BRONWYN CLARK** at: b.clark3@uq.edu.au



ISMPB has an active social media group. We currently have excellent members tweeting and posting (but know there are many more members interacting with ISMPB and liking our tweets). If you are interested in being involved, contact **GREG PETRUCCI** at: gpetrucci@umass.edu

We are also seeking members to be involved in our communications committee. Currently our communications activities include the website, social media (separate committee), newsletter and advising on future activities such as journal club and blogging. This is a good way to be involved in your society where the work load will not be high. If you are interested please contact **BRONWYN CLARK** at: b.clark3@uq.edu.au

Member Activity

What's new in the world of measurement? Look what our members have been up to.

Tudor-Locke et al. *International Journal of Behavioral Nutrition and Physical Activity* (2019) 16:8
https://doi.org/10.1186/s12966-019-0769-6

International Journal of Behavioral Nutrition and Physical Activity

RESEARCH **Open Access**

Walking cadence (steps/min) and intensity in 21–40 year olds: CADENCE-adults

Catrine Tudor-Locke^{1*}, Elroy J. Aguiar¹, Ho Han^{1,2}, Scott W. Ducharme¹, John M. Schuna Jr³, Tiago V. Barreira⁴, Christopher C. Moore¹, Michael A. Busa^{1,5}, Jongil Lim^{1,6}, John R. Sirard¹, Stuart R. Chipkin¹ and John Staudenmayer⁷



Open access **Research**

BMJ Open Motor activity across delirium motor subtypes in geriatric patients assessed using body-worn sensors: a Norwegian cross-sectional study

Sigurd Evensen^{1,2}, Alan Kevin Bourke¹, Stian Lydersen³, Olav Sletvold^{1,2}, Ingvild Saltvedt¹, Torgeir Bruun Wyller^{4,5}, Kristin Taraldsen¹

1. Associations of Device-Measured Sitting, Standing, and Stepping Time with Informal Face-to-Face Interactions at Work

By: Takemi, Sugiyama, Elisabeth A.H., Winkler, Anthony D., LaMontagne, Genevieve N., Healy, Nysa, Hadgraft, David W., Dunstan, Neville, Owen. In: *Journal of Occupational and Environmental Medicine*. Mar 08, 2019 Language: English, Database: Journals@OVID



 **Human Kinetics**
ORIGINAL RESEARCH

Feasibility of Integrating Physical Activity Into Early Education Learning Standards on Preschooler's Physical Activity Levels

Sofiya Alhassan, Christine W. St. Laurent, Sarah Burkart, Cory J. Greever, and Matthew N. Ahmadi

Journal of Physical Activity and Health, 2019, 16, 101-107
https://doi.org/10.1123/jpah.2017-0628
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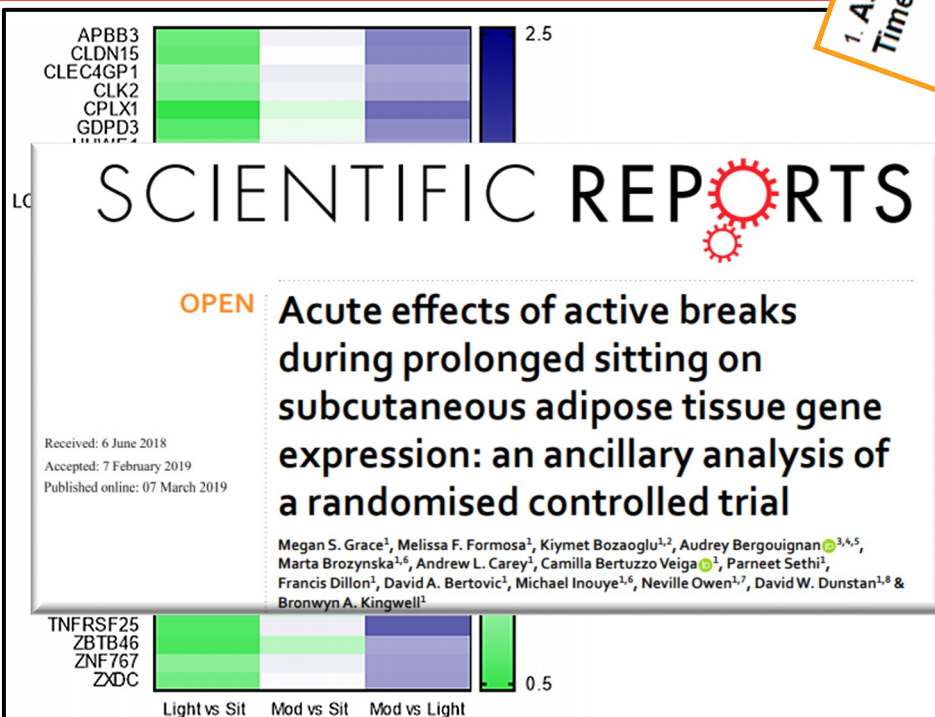


Figure 2. Genes differentially expressed between the three experimental conditions. Heat map showing those genes up (blue) and down (green) regulated for comparisons of Light vs Sit (light intensity breaks versus uninterrupted sitting, column 1); Mod vs Sit (moderate intensity breaks versus uninterrupted sitting, column 2) and Mod vs Light (moderate intensity breaks versus light intensity breaks, column 3). Comparisons meeting both the 0.5 fold change criteria (in either direction from 1) and the significance threshold are highlighted in Table 1. Refer to Table 1 for gene definitions.

Become a member of ISMPB

Who can become a member?

Membership in ISMPB is open to everyone from around the world involved in the measurement of free-living physical behaviour.

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/>

Member Benefits

- ⇒ Register for Society Meetings at reduced registration rates
- ⇒ Have free access to the society journal : JMPB
- ⇒ Support a new, young and independent Society
- ⇒ Become connected with leading experts in the field
- ⇒ Opportunity to get involved as an ISMPB Committee member
- ⇒ Vote in annual elections for the Board of Directors
- ⇒ Stand for election to the Board of Directors
- ⇒ Eligible for student awards at the Society Meetings (best oral and best poster)
- ⇒ Access to online resources and conference proceedings
- ⇒ Opportunity to post news and information on related events



Newsletter
ISMPB

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