Tilburg Meta-Research Day

November 22, 2019

Schedule and abstract booklet

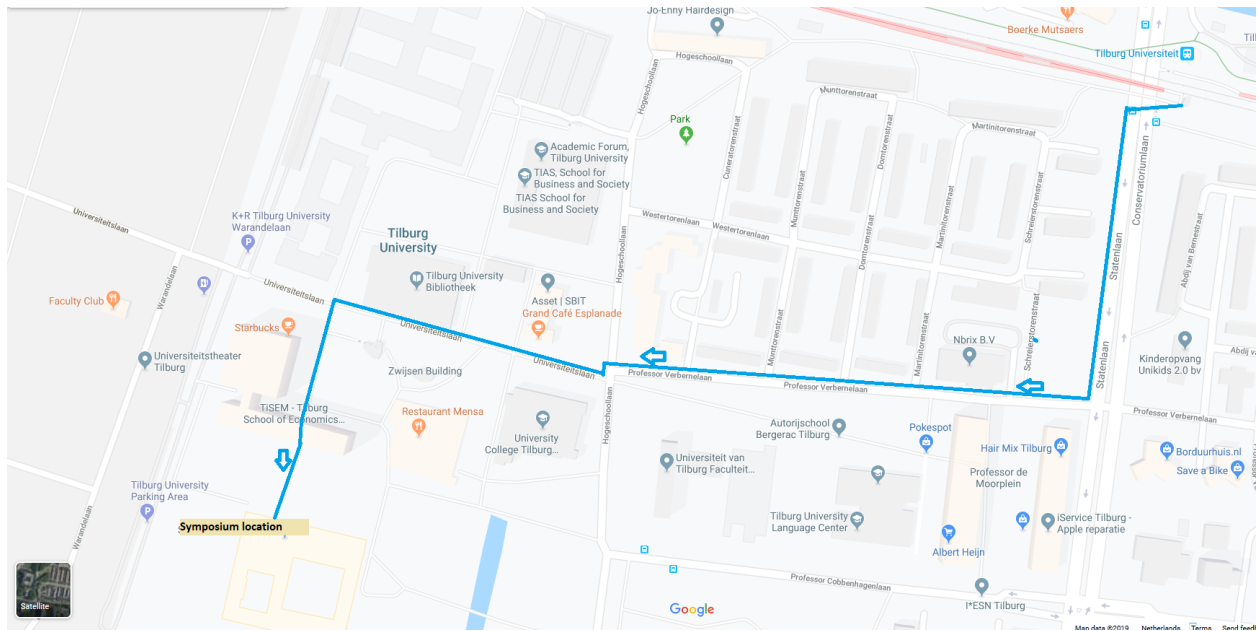## Schedule

Time	Session	Location
09:00 - 13:30	Registration	Reception area
09:45 - 10:30	Plenary: **Sarah de Rijcke** *Research on Research Evaluation:* *State-of-the-art and practical insights*	Auditorium
10:30 - 11:00	Break	Reception area
Parallel Sessions 1		
11:00 - 12:30	a) *How can meta-research improve statistical practices?*	CZ8
	b) *How can meta-research improve research evaluation?*	CZ9
	c) *How can we ensure the future of meta-research?*	CZ109
12:30 - 13:30	Lunch	Reception area
13:30 - 14:15	Plenary: **Ana Marušic** *Reviewing Reviews: Research on the Review* *Process at Journals and Funding Agencies*	Auditorium
14:15 - 14:45	Break	Reception area
Parallel Sessions 2		
14:45 - 16:15	a) *How can meta-research improve the Psychological Science Accelerator (PSA) and how can the PSA improve meta-research?*	CZ8
	b) *How can meta-research improve peer review?*	CZ9
	c) *How can meta-research improve our understanding of the effects of incentives on the efficiency and reliability of science?*	CZ109
	d) *Many Paths: A new way to communicate, discuss, and conduct (meta-)research.*	CZ118
16:15 - 16:30	Break	Reception area
16:30 - 17:15	Plenary: **John Ioannidis** *Meta-research in different scientific fields:* *What lessons can we learn from each other?*	Auditorium
17:15 - 17:20	Closing	Auditorium
17:20 - 18.30	Drinks	Reception area

General information

Tilburg Meta-Research Day is a one-day symposium organized by Tilburg Meta-Research Center (https://metaresearch.nl/) for anyone interested in studying or discussing the current state of academic research. More information is available at https://www.tilburguniversity.edu/about/schools/socialsciences/organization/departments/methodology-statistics/colloquia/meta-research-day.
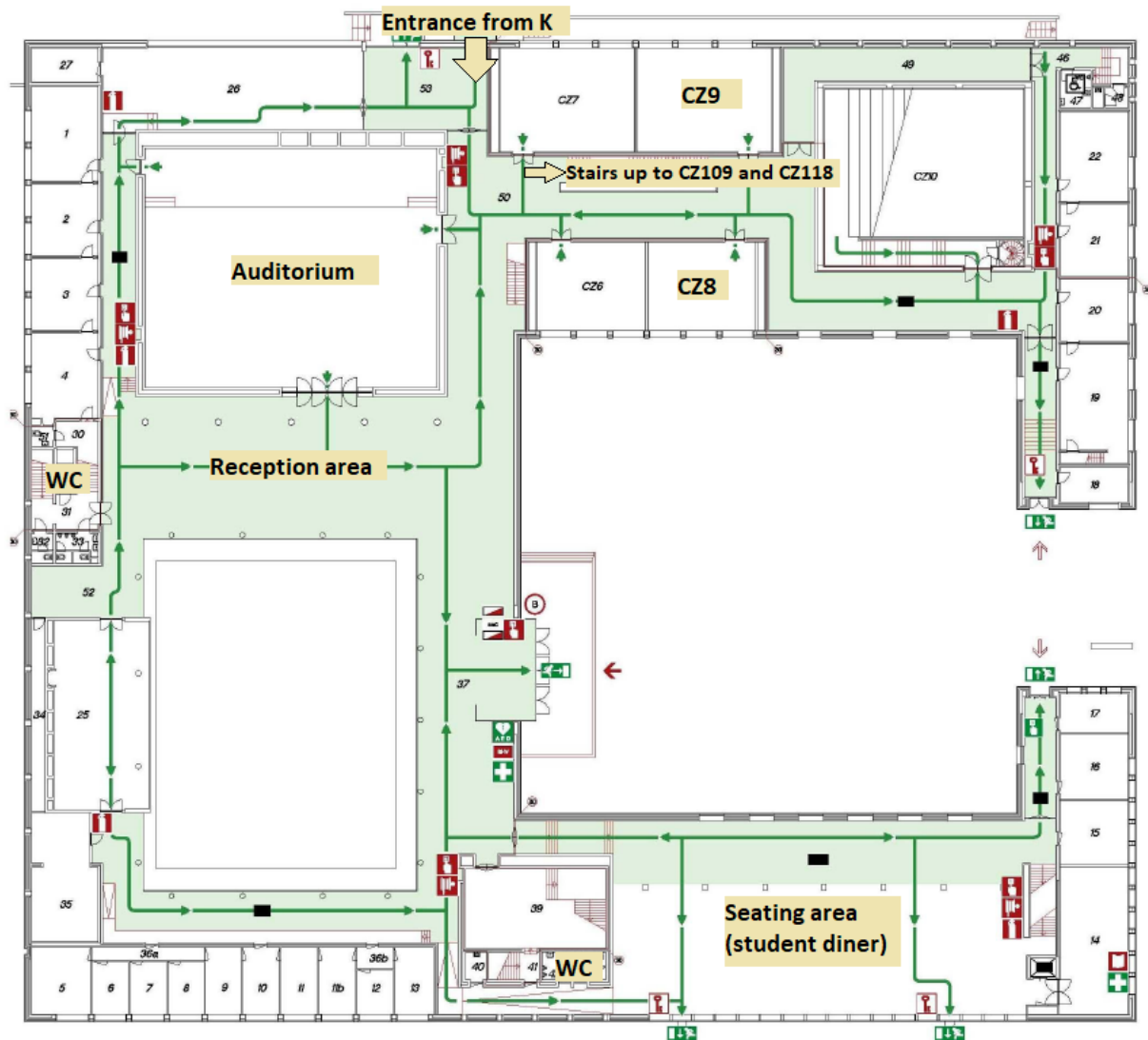
Arrival and finding your way around

The symposium takes place at Tilburg University (Warandelaan 2, 5037 AB, Tilburg). The symposium is centered around the Tilburg University auditorium in the Cobbenhagen (C) building, and the reception area is located just in front of the auditorium. The map below shows the easiest way to arrive at building C from the Tilburg University train station (by walking through building K at the very end). See also https://www.tilburguniversity.edu/contact/campus-map/cobbenhagen.
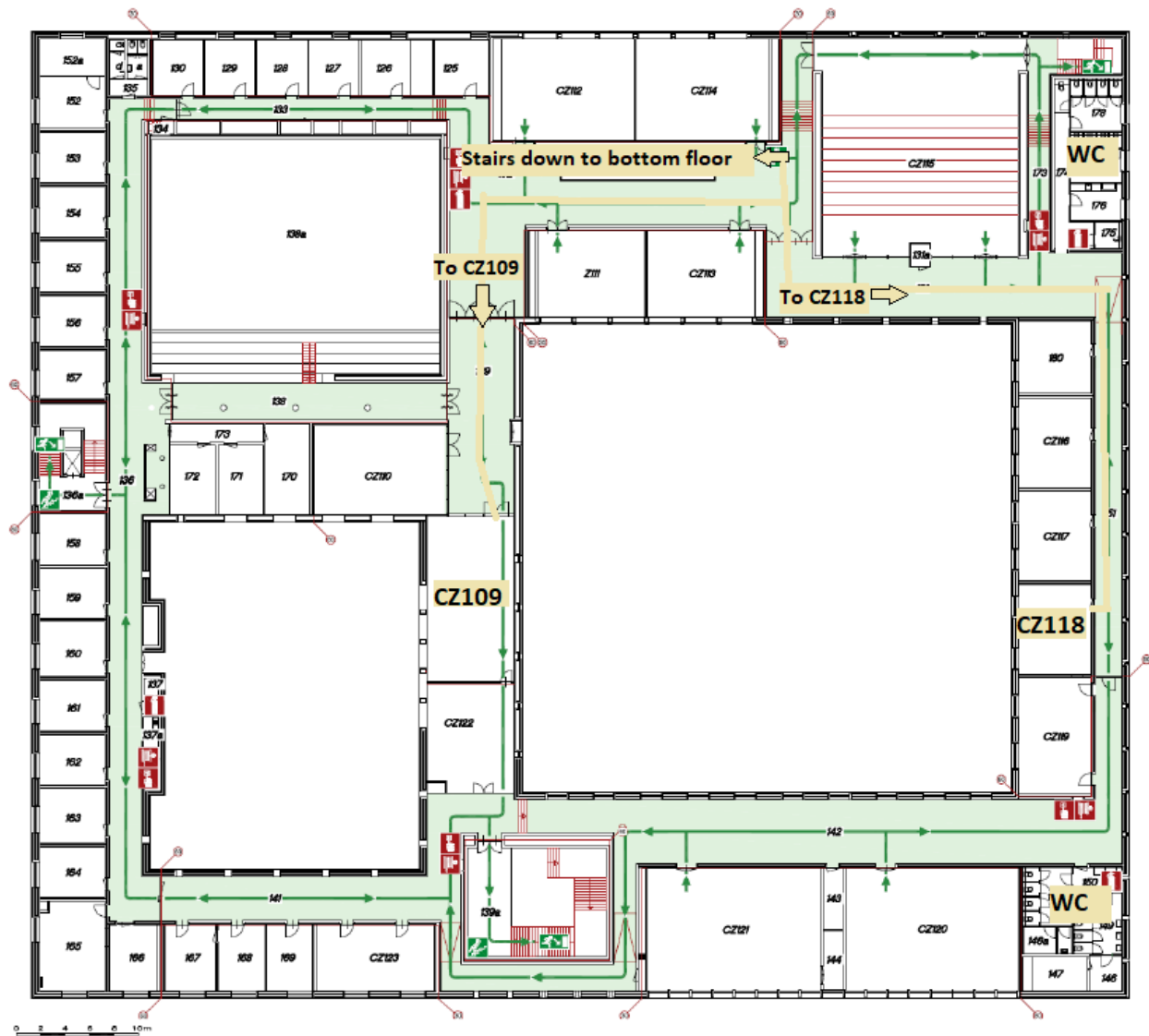
Location maps

Bottom floor (reception area, auditorium, CZ8, CZ9, bathrooms)

Top floor (CZ109, CZ118, bathrooms)

Abstracts Parallel Sessions

Parallell Sessions 1 (11:00 - 12:30)

Location	Session information
CZ8	Session leader: Judith ter Schure
	Session name: How can meta-research improve statistical practices?
	Abstract: Meta-research has spurred two opposing perspectives on science: one treats individual studies and study series as two separate publication types (e.g., in Ioannidis' 2005 paper 'Why Most Published Research Findings Are False') and one treats individual studies as part of a series that needs to be informed by that series (e.g., in the Chalmers et al. 2014 paper 'How to increase value and reduce waste when research priorities are set'). These two perspectives have different implications for what statistical methods are valid, both at the individual-study level and at the meta-analysis level. In this session, Judith ter Schure will lead a discussion about how we can use meta-research to find out which perspective is most appropriate and how this perspective can be used to improve statistical research and practice.
CZ9	Session leader: Sarah de Rijcke & Rinze Benedictus
	Session name: How can meta-research improve research evaluation?
	Abstract: The evaluation of research and researchers is currently based on biased metrics like the H-index and the journal impact factor. Several new initiatives have been launched in favor of indicators that correspond better to actual research quality. One of these initiatives is "Redefine excellence" from the University Medical Center (UMC) Utrecht. In this session, Rinze Benedictus will shortly outline the innovations that are implemented at the UMC Utrecht, after which we will have a discussion led by Sarah de Rijcke on how we can properly evaluate whether these innovations are effective. This discussion could be embedded in a broader discussion about which evaluation criteria would work best in which settings.
CZ109	Session leader: Olmo van den Akker
	Session name: How can we ensure the future of meta-research?
	Abstract: Meta-research has gained popularity the last few years as exemplified by major conferences like the Metascience Symposium at Stanford University, the Australian Interdisciplinary Meta-research & Open Science (AIMOS) conference at Melbourne University, and the European Conference on Meta-Research (in the summer of 2021 at Tilburg University). This surge in interest is crucially important as the process of science has been shown to be suboptimal. But how can we keep the momentum going? In this session, Olmo van den Akker will explore how we can ensure there are enough opportunities for meta-research in the future. The session aims to answer questions like (1) Where can we get funding for meta-research projects, and (2) How can we create a sustainable meta-research infrastructure?

Parallell Sessions 2 (14:45 - 16:15)

Location	Session information
CZ8	Session leader: Peder Isager & Marcel van Assen
	Session name: How can meta-research improve the Psychological Science Accelerator (PSA) and how can the PSA improve meta-research?
	Abstract: The Psychological Science Accelerator (PSA) is a standing network of more than 500 laboratories that collect large-scale, non-WEIRD data for psychology studies (https://psysciacc.org). The PSA is continually working to adopt best practices in (multi lab) research, and is actively seeking to create policy and collect data for the benefit of researchers in the meta-research community. In this session, Marcel van Assen and Peder Isager will discuss the importance of many lab studies and provide an overview of PSA's organization, including all completed and ongoing projects. A large part of the session will be interactive and be devoted to how meta-research and PSA may advance each other. Specifically, how can meta-research facilitate the submission, review, construction, design, and analysis of the many lab studies of PSA, and how can the results of these many lab studies advance meta-research? The goal is to write a blog post based on the ideas raised in the session, with the possibility of extending this into a paper.
CZ9	Session leader: Ana Marušic
	Session name: How can meta-research improve peer review?
	Abstract: Relative to studies regarding other parts of the research cycle studies on peer review are limited in quantity and scope. The main reason for that is the anonymity of the current system where peer reviews are done behind closed journal doors and we thus have limited information about the peer review process. In this session, we will discuss how we can get more information from peer reviewed journals and specifically focus on the question: What characteristics of the peer review (e.g., type of peer review, gender, language of the reviews, field of research) influence the editorial decision?
CZ109	Session leader: Sophia Crüwell & Leo Tiokhin
	Session name: How can meta-research improve our understanding of the effects of incentives on the efficiency and reliability of science?
	Abstract: Abstract to come
CZ118	Session leader: Hans van Dijk and Esther Maassen
	Session name: Many Paths: A new way to communicate, discuss, and conduct (meta-)research
	Abstract: To improve the way in which research is currently conducted and communicated, Hartgerink and van Zelst (2018) have recently suggested a new research communication infrastructure. In their infrastructure, research output is communicated continuously "as-you-go" as opposed to the current system where research is only communicated after the entire cycle has been completed (i.e., "after-the-fact"). This "as-you-go" system offers a host of advantages, including more transparency and a more rapid dissemination of research output. We have started a meta-research project called "Many Paths" to investigate the viability of their proposed infrastructure. In Many Paths, we starts with one research question (i.e. "Does power corrupt?) and allow an emergent process to occur thereafter. Given that results are often path dependent and many paths can be taken in a research process, we aim to examine what paths a research project initiated, pruned, and merged. The Many Paths model offers insight into how researchers from different disciplines approach and study the same research question in a different way, and how that may relate to different conclusions being reached. As such, the project offers insight into the value of the "as-you-go" form of research communication. The aims of our session are twofold: First, given that the Many Paths project is in the initiation stage, we welcome any feedback and suggestion that you may have to improve the project. Second, we would like to invite you to join the Many Paths project.

Code of Conduct

The Meta-Research Day is an event that brings together people who are interested in studying or discussing the current state of academic research. We are committed to provide a harassment-free event for all individuals, regardless of gender, gender identity and expression, sexual orientation, disability, physical appearance, body size, race, age or religion. We do not tolerate harassment of conference participants in any form. Participants are asked to frame discussions as openly and inclusively as possible and to be aware of how language or images may be perceived by others.

Reporting

We have a no-barriers reporting standard. That means you do not need to judge whether what occurred is "bad enough" to be reported. All legal persons may be reported (e.g., individual persons, organizations). We actively encourage reports to our own mishaps or improvement points. If someone makes you or anyone else feel unsafe or unwelcome, or if you believe a harassment problem exists, please report it as soon as possible to any member of the Meta Research Day organizing committee. All reports will remain confidential. If you would like to have a private conversation with someone, please ask any member of the Meta Research Day organizing committee, or e-mail one of the following persons, who both will be available at the event.

Esther Maassen (organization committee, she/her) – e.maassen@uvt.nl

Damiano D'Urso (not affiliated with the organization, he/him) – e.d.durso@uvt.nl

Enforcement

Participants who are asked to stop any harassing behavior are expected to comply immediately. If a participant engages in harassing behavior, event organizers retain the right to take any actions to keep the event a welcoming environment for all participants. This includes warning the offender or expulsion from the conference with no refund. Event organizers may take action to redress anything designed to, or with the clear impact of, disrupting the event or making the environment hostile for any participants. We expect participants to follow these rules at the event and event-related social activities.