

IMPACT

SHARE DAY WITH DANIEL LAKENS REPRODUCIBILITY CRISIS
KEYNOTES FROM

FRANCIS TUERLINCKX MULTIVERSE ANALYSIS

PARLIAMENT MEMBER FROM D66 ANTJE DIERTENS HOW SCIENCE CHANGES SOCIETY

VARIOUS IMPACTFUL WORKSHOPS SPECIFICALLY TAILORED POSTDOC TRACK



14.11.19




09:00 - 09:30 Registration and coffee (Blauwe Patio)

09:30 - 10:30 Plenary Session 1 (Rode Zaal)

09:30 - 09:45 Opening

09:45 - 10:30 **DANIEL LAKENS on
The Reproducibility Crisis in Research:
Methodological Issues and Proposed Remedies**

10:35 - 12:00 Workshops session 1

Designing Informative Studies and Publishing Null Results
The art of staying engaged as a PhD student
Do lobbyists have an impact?
Networking: Love it or hate it? Just practice it!
Making an impact with social media
Post-doc development: your career in academia 

12:00 - 13:00 Lunch (Blauwe Patio)

13:00 - 14:30 Workshops session 2

Bayesian statistics as a therapy for frequentist problems.
The art of staying engaged as a PhD student
Networking: Love it or hate it? Just practice it!
How to deal with the media?
Structure and Style – The Narrative of Your Grant Proposal ♥
Women in Science: we can have it all! ♥

14:30 - 14:50 Coffee break (Blauwe Patio)

14:50 - 16:35 Plenary Session 2 (Rode Zaal)

14:50 - 15:35 **FRANCIS TUERLINCKX on
Increasing transparency through a multiverse analysis.**

15:35 - 16:20 **ANTJE DIERTENS on
A politician's view on science and society.**

16.20 - 16.35 **Closing remarks
incl. announcement winners SHARE Publication Awards!**

16.35 - 17.35 Drinks and socializing (Blauwe Patio)

♥ = also recommended for post-docs;  = exclusive for post-docs

KEYNOTES

DANIEL LAKENS

ASSISTANT PROFESSOR, HUMAN-TECHNOLOGY INTERACTION GROUP, EINDHOVEN UNIVERSITY OF TECHNOLOGY

THE REPRODUCIBILITY CRISIS IN RESEARCH: METHODOLOGICAL ISSUES AND PROPOSED REMEDIES

Problematic research practices, such as publication bias, low statistical power, and flexibility during the data analysis have been pointed out in the scientific literature for over half a century. Recently, large scale replication projects have suggested that published scientific research is not as robust as we would like it to be. In this presentation I will talk about some of the problematic research practices that have limited knowledge generation in the past, how to recognize them, their consequences for the reliability of research findings, and ongoing efforts towards better research practices that have been developed in the last years. I will summarize some easy to implement improvements in designing and analyzing experimental studies and reflect on way in which we can improve our science.

FRANCIS TUERLINCKX

PROFESSOR QUANTITATIVE PSYCHOLOGY, KU LEUVEN, UNIVERSITY OF LEUVEN, BELGIUM

INCREASING TRANSPARENCY THROUGH A MULTIVERSE ANALYSIS

Empirical research inevitably includes constructing a data set by processing raw data into a form ready for statistical analysis. Data processing often involves choices among several reasonable options for excluding, transforming, and coding data. We suggest that instead of performing only one analysis, researchers could perform a multiverse analysis, which involves performing all analyses across the whole set of alternatively processed data sets corresponding to a large set of reasonable scenarios. Using an example focusing on the effect of fertility on religiosity and political attitudes, we show that analyzing a single data set can be misleading and propose a multiverse analysis as an alternative practice. A multiverse analysis offers an idea of how much the conclusions change because of arbitrary choices in data construction and gives pointers as to which choices are most consequential in the fragility of the result. (This is joint work with Sara Steegen, Andrew Gelman and Wolf Vanpaemel.)

ANTJE DIERTENS

MEMBER OF DUTCH PARLIAMENT FOR D66

A POLITICIAN'S VIEW ON SCIENCE AND SOCIETY

Antje Diertens is a member of the Dutch *Tweede Kamer* (Parliament) for D66. Amongst other topics, she has prevention, sport and mental healthcare in her portfolio. During her keynote, she will talk about the impact on society of science. How does she, as a representative in parliament, use science and the opinions of scientists to influence decision making for the country as a whole?

Workshops

Designing Informative Studies and Publishing Null Results

Dr. Daniel Lakens (*Assistant Professor, Human-Technology Interaction Group, Eindhoven University of Technology*)

What would falsify the hypothesis you are examining in your current study? Researchers typically design studies in the hope of finding $p < .05$. Yet, despite what you might believe if you browse a scientific journal, null-results are often the most likely outcome of a study. How do you design informative studies that have a high probability of observing significant results of your prediction is correct? And how can you statistically falsify predictions, without making the logical error of assuming a $p > .05$ means there is no effect?

The art of staying engaged as a PhD student

Prof. Debbie Jaarsma (*Professor Innovation & Research in Medical Education, Director Center for Education Development and Research in Health Professions and Programme leader LEARN, UMCG*)

Doing a PhD trajectory can be both a thrilling and stressful experience. Experiencing too much stress is not good for your health and performance. This workshop will dive into aspects from work or the self that are related to stress and engagement. The aim is to make you more aware of what resources and demands help or hinder you in your work and provide you with ways of crafting your work and life to feel and perform better.

Do lobbyists have an impact?

Amela Halilovic (*Public Affairs, BPRA, The Hague*)

What is lobbying exactly? And who are lobbying? And why, when and where do we lobby? In this workshop we will discuss lobbying within Dutch Politics. We will briefly talk about the Dutch political system and its procedures. This aligned with cases and examples on health care when elaborating lobbying in the Netherlands. Maybe then we can draw together the conclusion whether lobbyists have an impact.

Networking: Love it or hate it? Just practice it!

Eva Pantelakis (*Entrepreneur and Presentation Trainer*)



“It’s important to connect with people you might want to work with in future. So you better start networking now!”

Who hasn’t received this well-meaning advice? Imagine finding yourself at the end of a conference and now it’s time for drinks and networking... Have you ever noticed that people will mostly talk to people they already know? While some people love to network and will mingle actively, others feel like they’re being forced to talk to strangers. How can you network effectively when you’re feeling pressured and maybe a bit helpless? Whom should you approach? How do you start a conversation...and keep it going?

This workshop provides answers to these questions and gives you the opportunity to practice your networking in a relaxed and pressure free environment. Whether you love networking or hate it: you are welcome to join, try your skills and get some new ones. And maybe you’ll even start to enjoy it a little bit! Entrepreneur and presentation trainer Eva Pantelakis offers exercises and practical tips on:

- breathing techniques
- playful tips to enjoy the moment
- feeling more at ease with feeling uneasy

Post-doc career development

 This session is only for post-docs 

Prof. Ute Bültmann (*Professor Work and Health, UMCG*) and Obbe van der Wal (*business manager, UMCG*)

Are you currently working as a post-doctoral researcher and looking to continue your career in science? This can be within the UMCG or within another (academic) institution. In this session, Ute Bültmann and Obbe van der Wal will share tips on how to pursue a career in academia, based on your questions and input.

Bayesian statistics as a therapy for frequentist problems

Dr. Jorge Tendeiro (*Assistant Professor, Psychometrics & Statistical Techniques, Faculty of Behavioural and Social Sciences, RUG*)

This workshop will highlight problems with classical inference tools (p-values, CIs) and provide a motivation to use Bayesian statistics. Afterwards, the Bayesian philosophy will be discussed and an empirical example showcasing how to apply and interpret such methods will be fully discussed.

Making an impact with social media

Heleen Dijkhuis and Marjolein te Winkel (*Advisors Internal Communication, UMCG*)

In this workshop we tell you everything about the use of social media to increase your research outreach. With enlightening examples and of course some do's and don'ts. There will also be opportunity for discussion and questions.

How to deal with the media?

Joost Wessels (*press relations, UMCG*)

How can you prepare properly for an interview with a journalist? How do you ensure that your research appears in the *NOS Journaal*? What to do if a journalist suddenly calls you? These are aspects of the presentation "How to deal with media?". The aim is to provide a guide to all researchers who are sometimes confronted with media.

Structure and Style – The Narrative of Your Grant Proposal

♥ This session is recommended for post-docs, but open to all ♥

Prof. Ingrid Molema (*Professor Endothelial Biomedicine & Vascular Drug Targeting, UMCG and Trainer in RUG Talent Development programme and Groningen Graduate Schools programme*)

Join this workshop to learn about structure and style of narrative in your grant proposal to take it from telling to selling! Writing a grant proposal is more than just committing your unique, worthwhile and feasible idea to paper by filling in a grant proposal form. To get your proposal funded you need to anticipate how it will be received by a mixed panel of reviewers and by experts, and adapt your writing to inform, convince and motivate the reviewers and panel members to vote for funding your proposal. During this workshop you will get more information on how a panel works, what crucial parts of a proposal are, and the do's and don'ts as a basis for writing a powerful narrative.

This workshop is for postdocs or PhD students in the final stages of their PhD, who wish to pursue a career in research. You must have a rough idea about the research you would like to get funded. Upon signing up for this workshop, you will be expected to complete a homework assignment – you need to fill in the CV part (section 1) of a [Rubicon application form](#) and email it to g.molema@umcg.nl before November 4th 2019.

Women in Science: We can have it all!

♥ This session is recommended for post-docs, but open to all ♥

Dr. Lilian Peters (*post-doctoral researcher at Midwifery Science Department (VUmc), Midwifery Science section of the General Practice department (UMCG), School of Nursing and Midwifery (Western Sydney University)*) and Dr. Esther Metting (*post-doctoral researcher at the Groningen Research Institute of Asthma and COPD Primary care group (GRIAC-PC) at the General Practice department (RUG)*)

Are you wondering how other women are successful in science and have a family? How do these Women in Science balance their work & family life? During this workshop, you will discuss different approaches with two epidemiologists who have gone down this road themselves (dr. Lilian Peters and dr. Esther Metting). The point of their workshop is to convince you that you can have children and still be a fabulous Woman Of Science. *Hmm, would it be weird if we had sessions for men about being a dad and staying in science?!*