NEWS

Invitation upcoming iLab meeting

Monday 4 June 2018: 16-00 – 17:00

UCP 3d floor, room 3.18

Time to get personal? Crowdsourcing one individual time-series dataset to multiple analysts

Laura Bringmann, Jojanneke Bastiaansen

Ecological momentary assessments (EMA) is increasingly used in clinical research and has great promise for clinical practice as well. In this international and multidisciplinary project led by iLab we further study its potential: 12 different research groups independently analyze one EMA dataset of a single patient measured for 30 days. Each research group is then asked to provide clinical recommendations based on their results. Our main question is how much analytical approaches vary between researchers and to what extent this affects clinical recommendations.

Research master Behavioral and Social Sciences

Coming Autumn, a 2-year research master will start at the faculty of Behavioral and Social Sciences. It's track **Life Span Development and Socialization** may contain interesting courses for people who are interested in time-series analyis, idiographic research, complex dynamic systems, 3D data and many more topics you may find interesting. You can find the link to the program of the Research Master here: https://www.rug.nl/masters/behavioural-and-social-sciences-research/ Currently, we are working on the possibility for researchers from the ICPE/UCP to follow these courses. More information about the exact courses and possibilities to follow these will follow in the next newsletter (or contact Marij Zuidersma (m.zuidersma@umcg.nl)).

New version of protocol suicidality

There is a new version of the protocol "suicidality of study participants" / "suïcidaliteit tijdens deelname aan wetenschappelijk onderzoek". This protocol has been adapted according to feedback: an appendix has been added with additional information. You can find it on the employee pages of the ilab site under the header Ethics in Research (see https://ilab-psychiatry.nl/nl_NL/employee-pages/metc-protocols/). Reminder: the password for the employee pages is Idiographic321

New projects

TRAILS TRANS-ID: a unique diary study in progress

Websites: www.trails.nl/transid and www.transid.nl

In November 2017, the first TRAILS-CC participants enrolled in TRAILS TRANS-ID. This study involves completing a daily questionnaire about mood and subclinical psychopathological symptoms for six months. The resulting data provide insight in the day-to-day fluctuations of mood and symptoms in youth who are relatively vulnerable for psychopathology. This allows answering questions like: how do the dynamics of symptoms change prior to the onset of disorders? What characteristics in the network of symptoms determine whether individuals develop, for instance, symptoms of depression, anxiety, or no symptoms at all? Robin Groen and Marieke Schreuder, both supervised by Hanneke Wigman, Catharina Hartman and Marieke Wichers, hope to investigate these and other questions during their PhD. They are currently engaged in including participants and keeping track of the participants who are already included. The latter involves motivating participants to complete the diaries, troubleshooting any issues that arise, and monitoring whether participants have experienced any life events during the study. At present, 104 participants have been included. They will be finished with the diary somewhere between May 2018 and November 2018. This means that the first results will hopefully be available in the beginning of 2019. In sum, data collection is proceeding very smoothly, which is largely thanks to the commitment of the TRAILS-CC participants.

TRAILS TRANS-ID is funded by Robin Groen's NWO research talent grant and Marieke Wichers' ERC grant.
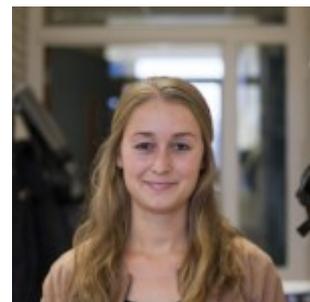
New employees

Lino von Klipstein – Therap-i

My name is Lino von Klipstein and I started as a PhD candidate on the Therap-i project in January 2018. In this project we are investigating whether we can aid case conceptualization for complex patients with depression through personalized dairy measurements and personalized feedback. I feel very fortunate to have joined a project that combines so many of my interests.

After finishing my Bachelor in Mannheim (Germany), I came to the Netherlands in 2013 to do the Research Master (with the major clinical psychology) at the UVA. While I was inspired by the program, I decided afterwards that I wanted to feel more connected to clinical practice and try myself in the role of a practitioner. To enable this, I followed a second and more practically oriented Master in Leiden. I went on to gather my first experience in clinical practice at PsyQ IMHS as an intern and later psychologist. Last year, I was able to combine my interests in research and practice in a double function as researcher/psychologist at Centrum '45 (partner in Arq). On this path, given the timing, place, and direction of my study, I was naturally exposed to and inspired by the network approach to psychopathology. I wrote two master theses on this topic under supervision of Denny Borsboom. The latter of which concerned the comparison of inter- and intraindividual patterns and introduced me to a more idiographic approach to research. As both iLab and Therap-i incorporate a network/systems approach, stand for an idiographic approach and represent research that relates closely to clinical practice, I think this is a good match.

Michelle Servaas – Therap-i

My name is Michelle Servaas and I am currently working as a postdoctoral researcher on the Therap-i project of dr. H. Riese, prof. dr. R. Schoevers and D.C. van der Veen. In my PhD research, I investigated the neural mechanisms underlying neuroticism to gain insight into why individuals scoring high on this personality trait are more vulnerable to develop psychopathology. After my PhD, I continued to pursue my research interest in (vulnerability for) psychopathology by investigating it on different levels, including affect, behavior and the brain, and developing methods to integrate findings across levels. First, I joined the iLab (UMCG) to develop statistical methods to establish a coupling between experience sampling methodology (ESM) data and brain network organization in remitted depressed patients and healthy controls. Second, I joined the Apathy project (UMCG) wherein I developed statistical methods to investigate functional brain connectivity dynamically and couple this with actigraphy data in schizophrenia patients with high levels of apathy. Besides research positions, I am being trained as health psychologist. I

have worked for two years at the specialized department for anxiety and obsessive-compulsive disorders (University Center of Psychiatry (UCP), UMCG) and currently, I work at the department for auditory hallucinations (UCP, UMCG). During the Therap-i project, I will implement ESM research methods in the clinic to provide patients and clinicians insight in the patient's unique symptom profile and to guide decision-making for personalized interventions.

Daan Ornée – Zelf-i
My name is Daan Ornée and since the start of 2018 I'm a PhD candidate at the ICPE working on the ZELF-i project. With ZELF-i we evaluate a smartphone based self-monitoring intervention as add-on tool for depression treatment. At the moment we have almost concluded the inclusion phase, and in the spring of 2019 we expect to finish the data-collection. My background is in Psychology; I finished my bachelor at the RUG in 2011, and the research master Social & Health Psychology at UU in 2013. I first started working in addiction care for two years before I switched to coaching people with brain damage. Since three years I've also been teaching various courses at Saxion and Hanze university of applied sciences. Because of my experience in healthcare I believe there is great potential in using smartphones to improve not only the treatments themselves, but also the availability of those treatments, and the communication between professionals and patients. With ZELF-I I hope to add to the scientific support for this use of smarthpones in healthcare.

Spyros Balafas – PhD student Ernst Wit, Hanneke Wigman and Sanne Booij
My name is Spyros Balafas and I am a first year PhD student at the Johann Bernoulli Institute (JBI) for Mathematics and Computer science. I work with the Statistics and Probability group under the supervision of Ernst Wit and Marco Grzegorczyk. Previously, I studied mathematics at the University of Patras and at the University of Groningen. During my master, I worked on the field of psychometrics and I developed an R package based on a nonparametric Item Response Theory (IRT) model named ''mudfold''.
My research project focus on the statistical modelling and inference of complex behavioral systems from longitudinal (panel) type of data. For this purpose, I work collaboratively with the psychiatry department of UMCG under the supervision of Hanneke Wigman. The aim of the project is to provide insights into the generative and driving mechanisms of psychopathology, by developing modern statistical techniques suitable for the analysis of complex longitudinal data obtained from the MIRORR study. Specifically, our goal is to infer networks from large sets of psychopathological symptoms in order to study both the dynamic and static structure of psychopathology in populations with increasing risk of developing psychotic

disorders. This can help us identify illness pathways and understand how interactions between symptoms can lead to the expression or not of psychotic disorders.

ILAB PUBLICATIONS

1 Oct 2017 - 1 April 2018

Toonen, RB, Wardenaar, KJ, Bos EH, van Ockenburg, SL, de Jonge P. Using bundle embeddings to predict daily cortisol levels in human subjects. BMC Med Res Methodol. 2018 Mar 21; 18(1):31. doi: 10.1186/s12874-018-0485-y.

Do you miss your publication in this list? Send it to m.zuidersma@umcg.nl and it will be listed in the next newsletter.

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