

Annual report 2020

Leiden University
University of Amsterdam
University of Groningen
Tilburg University
University of Twente
Utrecht University
KUL University of Leuven
Statistics Netherlands (CBS)
Psychometric Research Center (Cito)

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1 Preface

Due to the Covid-19 pandemic, 2020 was a different year than usual for IOPS.

Just like everyone else, we came to experience that life is not in our control. Also numbers have their own way and hold the capability of impacting personal lives. Due to restrictions, some courses and the Summer Conference, which was planned in partnership with SMiP to be held in Mannheim, had to be canceled.

At the same time we are pleased that we could continue some courses online in the fall and had our first successful online Winter Conference.

In December 2020, the IOPS board was pleased to welcome R (Remco) Feskens, as successor of dr A.A. (Anton) Béguin (CITO). We thank Anton Béguin for his commitment to our graduate school.

This year the IOPS Best Poster Award was won by Damiano D’Urso (Winter 2020) and Leonie Vogelsmeijer (Winter 2020) won the IOPS Best Presentation Award.

Jonas Haslbeck won the IOPS Best Paper Award, with his paper ‘Moderated Network Models’.

We congratulate the 14 students who defended their thesis successfully. The number of IOPS students in 2020 went down to 64.

On behalf of the IOPS board,

Rob Meijer

2 Introduction

2.1 Background

The Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS) is an institute for the advanced dissertation training in psychometrics and sociometrics of PhD students in The Netherlands and Belgium. Additionally, it coordinates high-quality research taking place in these fields, and its staff members consist of internationally esteemed experts.

Since its inception in 1987, IOPS has become a cornerstone of the psychometric and sociometric community in the Netherlands and Belgium, and it has contributed to the development of several generations of psychometricians and sociometricians. It is commonly held that to be an active member of the psychometric and sociometric academic community in the Netherlands and Belgium, means participating in IOPS, and PhD students working on topics related to psychometrics and sociometrics are almost always encouraged by their supervisors to become a member of IOPS since it is beneficial for the PhD student.

Many former IOPS student members have become internationally renowned psychometricians and sociometricians, and many of these alumni continue to be affiliated with IOPS and contribute by providing courses for IOPS students or acting as reviewers for research proposals.

2.2 Role of IOPS (contrasted with local graduate schools)

Psychometrics and sociometrics are rather specialized topics. Therefore, IOPS fills an important role in providing both a community for persons working on related research topics, and an educational platform that is able to provide courses, conferences, and specialized support that PhD students working on psychometrics and sociometrics would not be able to obtain at their own university. IOPS does not replace the role of local graduate schools that exist at the university where the PhD student works. IOPS aims to supplement the services provided by local graduate schools, it does not aim at fulfilling the managerial role of those local graduate schools. That is, IOPS PhD students are still expected to take part in their local graduate schools, and to adhere to the rules that are specified by these graduate schools. This also means that the supervision and management of participating PhD students is still taken to be the responsibility of the

university of the student, and is a role that is not fulfilled by IOPS.

Thus, IOPS supplements the services of these local graduate schools in areas where these graduate schools are unable to provide the students with services they need (i.e., specialized education on all areas of psychometrics and sociometrics, and a social research platform where students and researchers working on psychometrics and sociometrics can interact). This is a contribution that both former and current IOPS PhD students evaluate positively, and that many see as an important part of their professional development as psychometric or sociometric researchers. IOPS success and importance as an inter-university graduate school is also reflected in the fact that in September 2013 it was awarded by NWO with a NWO Graduate Program grant, which provided funding for four extra IOPS PhD positions on various topics in psychometrics and sociometrics.

2.3 Aims and activities of IOPS

The main aims of IOPS are to support the development of young researchers and the execution of high-quality research in psychometrics and sociometrics in the Netherlands and Belgium.

2.3.1 Activities

To achieve the aims mentioned above, IOPS undertakes the following activities:

- Providing multiple postgraduate courses on a variety of topics in psychometrics and sociometrics, taught by subject matter experts at participating universities and institutions (see Section 3.1).
- Providing PhD students with the opportunity of participating in the IOPS postgraduate program, which consists of a coherent set of courses and is rewarded with the IOPS certificate (see Section 3.3).
- Organizing biannual IOPS conferences at which both IOPS PhD students and international experts can present their research.
- Providing a network for both PhD students and researchers in psychometrics and sociometrics that facilitates interuniversity collaborations and informs its members of relevant news in the field (e.g., conferences and job openings). This also improves the transition of PhD students into relevant job positions after the

PhD has been completed (see Section 1.3.3).

- Offering support from a students' counselor in case a PhD student encounters a conflict with their supervisor regarding the contents of the research that cannot be solved at the faculty. Conflicts in the area of human resources or confidential personal matters are to be solved by the counselor of the students' faculty.

2.3.2 Quality of PhD research

The quality of PhD research is ensured by:

- The admission procedure: review of the proposal and approval by the board (part 1.3). At least one of the supervisors is an IOPS staff member, so the content quality of the research is being monitored.
- The requirements for the IOPS certificate, including being a discussant twice and review of a proposal twice (part 3.3)
- The research has to be concluded with an approved dissertation.

2.3.3 Connecting PhD students to the labour market

IOPS aims at optimizing the position of participating PhD students on the labour market after the completion of their PhD. It does so by providing:

- the IOPS certificate, which communicates to future employers that the student has successfully completed the IOPS PhD postgraduate program.
- a networking platform by means of the biannual conferences, which are also attended by IOPS staff.
- information (on the website and via emails) about relevant job openings.

Additionally, many stakeholders of psychometrics and sociometrics participate in IOPS, which means that after participation in IOPS, PhD students have obtained important connections both in academic and more applied areas related to their expertise. The main participating institutes are Cito and Statistics Netherlands (CBS).

2.4 Admittance to the IOPS postgraduate program

Any PhD student in the Netherlands and Belgium can apply for admittance to the IOPS

program, on condition that the following criteria are met:

- The student is in possession of a Master's degree (or equivalent) in a field related to psychometrics or sociometrics.
- He or she is registered as a PhD student at one of the universities in the Netherlands or Belgium, or he or she has a supervisor that is a staff member of IOPS.
- The research that the student performs or will perform towards achieving the title of PhD can be classified as being psychometric or sociometric research.
- The student has composed a research proposal for evaluation by the IOPS board that shows that the research is of sufficient quality.
- The student has composed a feasible educational plan that satisfies the criteria of the IOPS program (see Section 3.3).

If a student believes that these criteria can be met, he/she can submit an application to the secretary of IOPS. This application consists of the student's application detailing the research that the student will perform, and an educational plan that lists the IOPS courses that the student plans to follow and the period in which they will follow these courses.

After receiving the student's application, this is sent out for review by two IOPS staff members and two PhD student IOPS members (all four selected such that their research expertise matches the topic of the proposed research and they are not involved in the project). These four reviewers critically evaluate the entire proposal. Proposals accepted by NWO will only be reviewed by two PhD students and judged generally by the director. If necessary, the reviewers provide feedback on both the research proposal and the educational plan. Only in the case that the proposal is not accepted at once, the PhD student revises the proposal. On the basis of their comments and the possibly revised proposal, the reviewers formulate a recommendation to the IOPS board about whether the student should be admitted to IOPS based on the application as it has been submitted. After this, the board reviews the application at the upcoming board meeting. After discussing the proposal and the four reviews, the board members decide on whether the student should be admitted to the IOPS program. After the board has reached its decision, the secretary notifies the student and their main supervisor of the decision.

More information about the requirements and process can be found on the IOPS website:<http://www.iops.nl/students/becoming-an-iops-student/guidelines-for-applicants-appointed-as-phd-student/>

2.5 Affiliated student membership

If a student does not meet the required criteria to be admitted to the IOPS postgraduate program, or if a student does not intend on becoming a member of the program, a student can ask to be registered as an affiliated student member of IOPS. As an affiliated student member, the option to follow IOPS courses and attend the biannual IOPS conferences will be given. However, affiliated student members do not receive the IOPS certificate after the completion of their PhD project. In addition, as opposed to the regular IOPS PhD students, they do not pay an annual participation fee but they pay for each course/conference separately.

3 Organization

3.1 History

The present interuniversity school for psychometrics and sociometrics (IOPS) goes back to a national platform for collaboration in research and education active since the seventies, formalized in the “Nederlandse Stichting voor Psychometrie” (Dutch Foundation for Psychometrics, an advisory body for ZWO, as NWO was then called). IOPS was officially founded as an institute for advanced dissertation training on June 24th, 1987. IOPS then obtained a starting grant from the Ministry of Education in 1987 for a period of five years. The Royal Dutch Academy of Arts and Sciences (KNAW, ECOS committee) officially reaccredited IOPS as an interuniversity graduate school in 1994, 1999, and 2004.

Until 2000, the University of Amsterdam was commissioner (“penvoerder”), and after that the University of Leiden took over the responsibility. Since February 2014 the University of Groningen has been commissioner of IOPS.

In 2010, when the KNAW accreditation period ended, the Board of IOPS considered the changes in the organization of PhD training in the Netherlands brought about by the policy change of the Association of Universities in the Netherlands with the effect that all universities started developing their own systems of local Graduate Schools.

Because psychometrics and sociometrics are relatively small and highly specialized areas of expertise, it was clear that national collaboration would remain of utmost importance for IOPS to stay on the front-edge of methodological research, and therefore the Board decided to continue IOPS activities as a national platform of research and PhD training, but now under a new, less formal construction. A new Agreement of Cooperation between the participating faculties was drafted, and formally established in 2011 for the duration of four years. An adjusted Agreement of Cooperation has been established in 2015.

3.2 Participating and cooperating institutes

The partners in the Agreement of Cooperation are the academic groups of seven universities (from the Netherlands and Belgium) and the two non-academic institutes are listed in the table below. The non-academic partners CBS and CITO have strong ties with several of the academic groups, and also bring in PhD projects.

In 1994, the establishment of graduate schools and the rearrangement of staff members, caused IOPS to introduce a new category of staff for those who - for formal reasons - could not be a regular IOPS staff member: the associated staff members, working at cooperating institutes. The requirements for associated staff members are identical to those of regular staff members. PhD students of these associated staff members can be admitted to IOPS as an external dissertation student. The cooperating institutes have no representative in the board. Article 8 in the Agreement provides the conditions under which associated research groups can become full participants.

In the table below, all participating and cooperating universities and institutes, with the number of student and staff members per academic group/institute are listed.

(Information as of 31-12-2019)

Participating institutes		
Name institute	# students	# staff
Leiden University Faculty of Social and Behavioural Sciences	8	16
University of Amsterdam Faculty of Social and Behavioural Sciences	16	26
University of Groningen Faculty of Behavioural and Social Sciences	13	12
University of Twente Faculty Behavioural, Management and Social Science (BMS)	2	6
Utrecht University Faculty of Social and Behavioural Sciences	15	22
Tilburg University Tilburg School of Social and Behavioural Sciences	24	21
KU Leuven, University of Leuven Belgium, Faculty of Psychology and Educational Sciences	11	9
Statistics Netherlands (CBS) Den Haag	0	3
Psychometric Research Center (Cito) Arnhem	0	5

Participating institutes		
Name institute	# students	# staff
University of Groningen, Faculty of Behavioural and Social Sciences (Sociology & department of Education)		4
VU University Amsterdam, Faculty of Psychology and Education		4
Maastricht University, Fac. of Health, Medicine and Life Sciences & Fac. of Psychology & Neuroscience		7
Erasmus University Rotterdam		4
Wageningen University		1

3.3 Board and office

The structure and organization of IOPS are formalized in articles 3-6 of the Agreement of Cooperation. The most important units are the IOPS board and the secretarial office. The governing Board of IOPS consists of seven members delegated by the participating universities and two representatives of the participating research institutes. Board meetings are also attended by two representatives of the IOPS PhD students, appointed by the IOPS PhD students for a period of two years. The board has the ultimate responsibility with regard to the research programme, educational programme, and finances.

The institute director is also chairman, he/she is elected from the representatives of the seven participating universities

The Board delegates daily matters to its Chair, who runs the Secretarial Office, and communicates its policies and decisions in a general meeting of scientific staff and students twice a year.

3.3.1 Members IOPS Board

In 2020, the board was pleased to welcome dr. R (Remco) Feskens, as successor of dr A.A. (Anton) Béguin (CITO) . We thank Anton Béguin for his commitment to our graduate

school. On 31 December 2020 the Board consisted of:

- Prof. R.R. (Rob) Meijer, Chair, University of Groningen
- Dr D. (Dylan) Molenaar, University of Amsterdam
- Prof. M.J. (Mark) de Rooij, Leiden University
- Dr G.J.A. (Jean-Paul) Fox, University of Twente
- Dr K. (Katrijn) van Deun, Tilburg University
- Prof. I. (Irene) Klugkist, Utrecht University
- Prof. F. (Francis) Tuerlinckx, KU Leuven-University of Leuven
- Dr. R (Remco) Feskens, CITO (National Institute for Educational Measurement)
- Prof. A.G. (Ton) de Waal, CBS (Statistics Netherlands)

3.3.2 PhD representatives

Shuai Yuan (University of Tilburg) was appointed first representative, after being assistant representative in 2019. Anton Olsson Collentine (University of Tilburg) was appointed assistant PhD student representative.

3.3.3 Office

The Chair of the Board runs the Secretarial Office, and is supported by an Executive Secretary. The RUG-based office is responsible for the preparation and execution of IOPS policies, activities, and Annual Reports. The Executive Secretary assists the Chair and the Board, and runs the IOPS website, the student administration and manages the digital archive. She also assists the local groups in the organization of conferences and courses. Since September 1st 2020 the Executive Secretary of IOPS is drs. Mirjam Bouwsema. Finances are handled by the Financial Department (FSSC) of the University of Groningen.

Secretary: drs. Mirjam Bouwsema
E-Mail: secretariaat.iops@rug.nl
Web: www.iops.nl
Phone 050 36 32 668
Address: University of Groningen Faculty of Social and Behavioral Sciences
Grote Kruisstraat 2/1
9712 TS Groningen, The Netherlands

3.4 Cooperation with Related Master programmes

All academic board members are in direct contact with the directors of the related Master programmes. Although there are six different locally organized Master programmes, there is close collaboration with the programme directors and a considerable degree of coordination between them. The reason is that the faculty members who are charged with teaching responsibilities in the IOPS PhD programme also occupy central roles in education and management of the local Master programmes. In several cases, there is even a personal union between IOPS scientific staff members and directors of Master programmes. Generally, collegial ties are flexible, but directors of Master programmes take binding decisions with respect to the Master phase, and the IOPS Board takes binding decisions with respect to the PhD education activities IOPS has to offer. In practice, cooperation is very smooth.

3.5 Board & plenary meetings

Due to the Covid-19 pandemic, in 2020 all board meetings were held by email or online on April 21st, June 19th, October 30th and December 3rd.

Plenary meetings for all IOPS members (staff and PhD students) are usually held twice a year during the IOPS conferences.

Due to the Covid-19 pandemic, the 2020 Summer conference was canceled. The plenary meeting took place on December 3rd, during the online Winter Conference.

3.6 Archive

The IOPS archives the following:

Registration of new PhD students and their transition

- registration form, including an educational plan
- reviews, possibly response to the reviews and the recommendation of the reviewers
- Certificates of IOPS courses or relevant courses outside of IOPS
- Titles of oral and poster presentations
- Amount of peer reviews and times of discussant role at conference

Courses and presentations

- the grades, pass/fail for all the students in that year's course

- evaluations of the courses

(Note: IOPS gives instructions to the teachers how and when to do this and checks whether the grades and evaluations are received.)

All data is archived in Groningen on the local workspace Y/staff/gmw/IOPS/... and Google Drive through RUG- UG account.

4 The IOPS post graduate programme

4.1 Educational programme

4.1.1 IOPS curriculum

During the period as an IOPS PhD student, the student needs to participate in the IOPS curriculum. Every participating university organizes at least one course. These courses include two mandatory courses (“What is psychometrics” and “Statistical Consulting to Behavioral Scientists”) and multiple elective courses. All courses are free for IOPS students (it is included in the annual contribution fee). Courses are open for non-IOPS members, but IOPS-members have priority.

An overview of the IOPS curriculum can be found in the table below and on the IOPS website.

Month	Course	EC	Even years	Odd years
February	Statistical Learning (LU)	2	2020, 2022...	
April	Generalized latent variable modeling (TiU)	1	2020, 2022...	
April	Meta-analysis (UM)	1	2020, 2022...	
May	What is Psychometrics? (UvA)	2	2020, 2022...	2021, 2023...
June	IOPS Summer Conference		2020, 2022...	2021, 2023...
July				
August	A Gentle Introduction to Bayesian Statistics (hybrid)	2	2020, 2022...	2021, 2023...
September	Survey Design (UU)	2	2020, 2022...	2021, 2023...
September				
October	Bayesian Item Response Modeling (UT)	2	2020, 2022...	
October	Statistical Consulting to Behavioral	3	2020, 2022...	

	Scientists (UvA & LU)			
November	Mathematical Statistics (RUG)	1	2020	2021, 2023...
November	Optimization & Numerical Methods (KU Leuven)	2	2020, 2022...	2021, 2023...
December	IOPS Winter Conference		2020, 2022...	2021, 2023...

Note. UA: University of Amsterdam; UM: University of Maastricht; UU: Utrecht University; UT: University of Twente; UL: University of Leuven; TU: Tilburg University; UG: University of Groningen; LU: Leiden University.

4.1.2 Courses in 2020

In 2020 six courses of the IOPS curriculum were organized:

- **Statistical Consulting to Behavioral Scientists (mandatory)**
Leiden University, November-December 2020
Lecturers: Dr. E. Dusseldorp (coordinator) and Dr. M.G.E. Verdam
- **What is Psychometrics? (mandatory)**
University of Amsterdam, September 2020
Coordinator: Prof. D. Borsboom
- **Generalized Latent Variable Modeling**
Tilburg University, January 2020
Lecturer: Prof. dr. J.K. Vermunt
- **Mathematical Statistics**
University of Groningen, October-November 2020
Lecturer: Casper Albers
- **Optimization & Numerical Methods in Statistics(elective)**
KU Leuven-University of Leuven , October- November, 2020
Lecturers: Prof G. Molenberghs, Prof F. Tuerlinckx, Dr K. van Deun & Dr T. Wilderjans
- **Statistical Learning**
Leiden University, January 2020
Lecturers: Dr. T.F. Wilderjans, Dr. M. Fokkema

4.1.3 Numbers of IOPS students per course in 2020

In the table below the numbers of IOPS students that participated in IOPS courses in the

period 2013-2020

IOPS Course	2013	2014	2015	2016	2017	2018	2019	2020
Generalized latent variable modeling (TiU)			20		20			18
Statistical Learning (UL)					24	13		18
What is psychometrics? (UvA)	10		24	20	14	17	18	13
Advising on research methods (UvA)	n.a.		14					
Statistical Consulting to Behavioral Scientists (UL, UvA)					8		13	12
Applied Bayesian Statistics (UU)	n.a.	10	5	n.a.	n.a.	3	11	
Optimization & Numerical Methods in Statistics,(KU L)	13	6	22	18	16	2	10	7
Meta-Analysis (UM)		5		7		5		
Analysis of Measurement Instruments (UT)		6						
Survey Design (UU)	8			4	3	4	3	
Bayesian Item Response Modeling				9		7		
Transparency in Science					3			
Mathematical Statistics								11

4.1.4 Examination

Courses differ in the requirements that need to be met to receive the course credit (EC): essay exams, multiple-choice exams, assignments, computer practical, and individual presentations are being used.

4.1.5 Course evaluation

All individual courses are evaluated by evaluation forms that are administered to the participants at the end of every course. The results of these evaluations are discussed at the board meeting. Two IOPS representative PhD students also attend these meetings.

4.1.6 Research training programme

The research-training program consists of reviewing research proposals of fellow students and the participation in IOPS conferences.

4.1.7 Peer review

With the exception of PhD projects funded via NWO, FWO and ERC, which are reviewed by two PhD students only, each new proposal submitted to the IOPS is reviewed by two IOPS PhD students and two IOPS staff members. This implies that every student has to review a proposal twice. Participating in the IOPS review process is intended to make the IOPS PhD student acquainted with the peer-review process.

4.1.8 Conferences: aims and programme

The conferences are intended for the IOPS PhD students to:

- practice in presenting his/her research (poster and oral presentation) in a conference setting
- practice in having public discussions after a conference presentation
- practice in acting as ‘discussant’ and start the academic discussion after an oral presentation
- get feedback on his/her research from experts in the field develop a social network
- get to know the field of psychometrics and sociometrics in a broader perspective.

The IOPS biannual conferences take place in June and December and are organized by the participating universities in turns. Each conference programme consists of the following elements:

- student poster presentations
- student oral presentations
- presentation by IOPS staff members
- presentation by an international expert outside IOPS (optional)
- conference dinner

Awards at the conferences:

- At each conference, a prize is awarded to the best student presentation and the best student poster. The Board has established these prizes to emphasize the importance of the presentations at the conferences.
- Once a year, at the summer conference, a prize is awarded for the best single research article by an IOPS PhD student that has been published or accepted for publication in the previous year. Papers in internationally peer-reviewed journals will be given more weight than chapters in books.

4.1.9 Conferences in 2020

- 30th Winter Conference, December 3 2020
Venue: Groningen University, online
- 35th Summer Conference, June 23-24 2020, IOPS/SMiP
Venue: Mannheim
(Canceled due to COVID-19)

4.2 IOPS certificate

A student is eligible for the IOPS certificate when the research project is completed and he/she has met the requirements of the IOPS post-graduate programme.

Educational requirements

The PhD student should complete the two mandatory courses (“What is psychometrics” and “Statistical Consulting to Behavioral Scientists”), which are 5 EC in total. Exemption for the latter course can be granted in case an equivalent course has been completed earlier. The PhD student should complete elective IOPS courses up to at least 5 EC (exemption is not possible).

Research requirements

All students are required to

- review two research proposals of fellow students
- attend at least four IOPS conferences
- present twice at an IOPS conference: a poster at the start of the project and an oral presentation at the end of the project
- have been discussant at an IOPS conference twice.

5 Students and their projects

5.1 Introduction

Applicants for the IOPS dissertation training must have a Master's degree in one of the following disciplines. Behavioural Sciences, Technical Sciences, Mathematics or Econometrics. They are appointed as PhD student, or as an indirectly financed PhD student. PhD students within IOPS are financed by internal research funds of the participating institutes, NWO (Netherlands Foundation of Scientific Research) or European funding, or other external funds of third parties.

5.2 Admissions, deregistrations and dissertations

	2012	2013	2014	2015	2016	2017	2018	2019	2020
Student admissions	22	18	14	21	20	11	27	16	18
Premature deregistrations	0	0	2	2	1	2	3	2	
Dissertations	17	7	12	11	17	11	18	8	14
Projects that exceeded the project time limit on 31 December	3	4	5	11	8	7	8	19	
Students on 31 December	53	61	60	62	65	61	67	67	68

5.2.1 Dissertations in 2020

Name	Title	University	Date
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Tessa Blanken	Changing perspectives on insomnia and depression: From symptoms to system,	Vrije Universiteit Amsterdam	18-09-2020
Nadja Bodner	Unraveling behavioral sequences in micro-coded parent-child interactions: A dynamic network approach to binary time series data	KU Leuven	07-10-2020
Nitin Bhushan	Correlation, causation, and dynamics	University of Groningen	04-06-2020
Daniela Crisan	Practical Significance of Item Response Theory Model Misfit: Much Ado About Nothing	University of Groningen	02-07-2020
Sara van Erp	Bayesian Structural Equation Modeling: The Power of the Prior	Tilburg University	11-09-2020
Sopiko Gvaladze	Dimension reduction challenges in multi-block data analysis: Handling outlying variables and performing regression in reduced space	KU Leuven	
Chris Hartgerink	Contributions towards understanding and building sustainable science	Tilburg University	17-02-2020
Jonas Haslbeck	Modeling psychopathology. From data models to formal theories, at the	University of Amsterdam	18-06-2020
Fayette Klaassen	The latest update on Bayesian informative hypothesis testing	Utrecht University	10-01-2020
Alexandra de Raadt	Comparison studies on agreement coefficients with emphasis on missing data	University of Groningen	05-11-2020
Oisín Ryan	Dynamic Systems and Causal Structures in Psychology: Connecting Data and Theory	University of Utrecht	30-10-2020
Duco Veen	Alternative Information: Bayesian Statistics, Expert Elicitation and Information Theory in the Social Sciences	Utrecht University	13-03-2020

Lieke Voncken	Flexible regression-based norming of psychological tests	University of Groningen	14-05-2020
Sanne Willems	Advances in Survival Analysis and Optimal Scaling Methods	Leiden University	19-03-2020

5.2.2 New projects in 2020

Name	Project	University
Ingrid Arts	Increasing MI by introducing webprobing into a BSEM	Utrecht University
Julian Burger	Advancing Personalized Network Modelling in Clinical Practice - Approved	University of Groningen
Leonie Cloos	Improving the measurement of mood and mood disorder	KU Leuven
Edoardo Costantini	(TiU) – Treatment of Missing Data in High-Dimensional Social and Behavioral Science Data	Tilburg University
Maarten van den Ende	Computational modelling of psychological and social dynamics and urban mental health conditions -	University of Amsterdam
Qixiang Fang	Content Validity of High-Dimensional Measurement	Tilburg University
Sophie Hendrikse	The Rhythm of Relating: How to quantify interpersonal synchrony in movement, physiological and neural activations and model the interactions between these modalities?	Vrije Universiteit Amsterdam Leiden University
Maximilian Linde	Back to Bayesics: Solving the Reproducibility Crisis in Biomedicine	University of Groningen
An-Chiao Liu (Anne)	Correcting for selectivity in datasets	Tilburg University

Sebastián Mildiner Moraga	The multilevel explicit-duration hidden Markov model for real time behavioural data	Utrecht University
Jasmine Muradchianian	Improving replicability in science	University of Groningen
Koen Niemijer	Tracking mood and mood disorder using mobile sensing	KU Leuven
Maarten Piot	Improving the user experience of the innovative blended care platform m-Path	KU Leuven
Merle-Marie Pittelkow	Solving the Reproducibility Crisis in Biomedicine	University of Groningen
Evelien Schat	Online detection of early warning signals of mood disorder through statistical process control	KU Leuven
Marie Stadel	Capturing a Patient's Context: Developing experience sampling tools for personalised patient feedback in psychotherapy	University of Groningen
Dandan Tang	Bayesian Evaluation of Informative Hypotheses Using bain	Utrecht University
Niels Vanhasbroeck	Testing a mathematical model of affect dynamics	KU Leuven

6 Staff

IOPS staff members belong to the participating (regular staff) and cooperating (associated staff) institutes. There are two categories of staff members: junior and senior staff members. Both require acknowledgment in their field according to, among others, international publications. Junior staff members have obtained their PhD less than five years ago, and do not necessarily have (co-)responsibility of dissertation research. Senior staff members do have (co-)responsibility of dissertation research.

6.1 Professorships

6.2 Staff changes

Junior staff members admitted to IOPS in 2020

- Abe Hofman (UvA) - University of Amsterdam
- Julia Haaf (UvA) - University of Amsterdam
- Ginette Lafit - KU Leuven
- Janne Kristin Adolf - KU Leuven
- Nadja Bodner - KU Leuven
- Marielle Zondervan
- Trung Dung Tan

Emeritus status

IOPS proudly keeps in touch with its emeritus members. The following staff member entered the emeritus status in 2020.

- Theo Eggen (prof dr ir T.J.H.M. Eggen)

6.1 Staff members

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7 Scientific awards and grants

7.1 Awards and grants honored to IOPS staff members

7.1.1 Scientific awards

Name	Award	Date
Hojtink, H. Utrecht University	Awarded a fellowship at NIAS	The first semester of 2019-2020
Van Buuren, S. Utrecht University	Principal Scientist Netherlands Organization for Applied Scientific Research (TNO)	1 Nov. 2020
Fang, Q. Utrecht University	Winner Team of the Big Data Challenge at BigSurv20 conference	4 Dec 2020
Wicherts, J.M., Tilburg University	Fellow of the Association for Psychological Science (APS)	2020

7.1.2 NWO Grants

NWO Veni, Vidi, Vici grants These are part of the NWO Innovational Research Incentives Scheme (Vernieuwingsimpuls)				
Name	Grant	Project	Period	Budget
Ravenszwaaij, D. van University of Groningen	Back to Bayesics: Solving the Reproducibility Crisis in Biomedicine	Vidi	Nov. 2018 – nov. 2023	€ 800.000
Kuiper, R.M., Utrecht University	Studying time-lagged effects using ESM-data: Statistics lag behind, it is time to go	Veni	Dec. 2016 - Dec. 2020	€250.000

	continuously			
Oberski, D.L., Utrecht University	Advancing social science with valid measures derived from incidental data	Vidi	Dec. 2019 - Dec 2024	€800.000
Schoot, A.G.J. van de, Utrecht University	Experts, their prior knowledge, and the issue of limited data	Vidi	Jan. 2016 - Jan. 2021	€800.000,-
Lissa, C.J. van, Utrecht University	Predicting emotional development in adolescence	Veni	Jan. 2020 - Jan. 2024	€250.000
De Roover K., Tilburg University	Lack of measurement invariance in multilevel data: A cluster-based solution for making valid attribute comparisons	Veni	2017-2020	€250.000
Mulder, J., Tilburg University	Statistical Modeling of Dynamic Social Network Using Relational Event Histories	Vidi	2018-2022	€800.000
Van Deun, K., Tilburg University	Big Data in Social Sciences Statistical Methods for multi-source high-dimensional dat	Vidi	Sept 2017- Sept. 2022	€800.000
Marsman, M. University of Amsterdam	The Psychometrics of Learning	Veni	2018-2022	250.000
Haaf, J. University of Amsterdam	Same or Different? Modeling Individual Differences in Cognitive Tasks	Veni	17-10-2021 - 16-6-2025	€ 245.072

NWO Research Talent grants

NWO Research Talent is a responsive mode funding scheme, which offers talented and ambitious young researchers a platform to pursue a scientific career and carry out high-quality PhD research

Name	Project	PhD student	Period	Budget
Timmerman, M.E & Albers, C.J. University of Groningen	Dynamic clustering: Classifying people through ecological momentary assessment	Anja Ernst	2017-2021	€224.201
Assen. M. van, Tilburg	Getting it right with	PhD student	1 Sept. 2015	€210.000

University	meta-analysis: assessing heterogeneity and moderator effects in the presence of publication bias and p-hacking	Hilde Augusteijn	- 1 Sept. 2020	
Kaptein, M.C., Mulder, J., Tilburg University	Making the most of clinical trials: Increasing efficiency using novel Bayesian methods for information sharing within and between trails	PhD Student Xynthia Kavelaars	2018-2022	
Vermunt, J.K., Tilburg University	Advancing structural	PhD student	1 Sept 2015 -	€210.000
Mulder, J. Tilburg University	Equation modeling with	Sara van Erp	1 Sept. 2019	
Vermunt, J.K., De Roover, K. Tilburg University	Understanding between- and within-person differences in experience sampling measurements using mixture factor analysis	PhD student Leonie Vogelsmeier	2017-2021	€224.000
Vermunt, J.K., Van Deun, K., Tilburg University	Identifying Group Differences in Large-Scale Multi-block Data	PhD student Shuai Yuan	2017-2021	€224.201
Wagenmakers, Eric-Jan, Visser, I, Raijmakers, M.E.J.	Inferring cognitive strategies from eye-movement sequences: A Bayesian model-based	S. Kucharsky, PhD student	2019-2024	€225.850

NWO Aspasia grants With the Aspasia grants, NWO stimulates the promotion of female researchers in higher ranking			
Name	Project	Period	Budget

NWO - other grants			
Name	Project	Period	Budget
Hoijtink, H., Utrecht	PI in NWO Gravity Grant: Individual	2012-2022	€540.000

University	development: Why some children thrive and others don't		
Hamaker, E.L., Utrecht University	Graviation CID: How to study causes and their effects in developmental processes.	2019-2024	€236.000
Maartje Raijmakers, UvA	Anticiperen op diversiteit in interesse voor het presenteren van duivelse dilemma's	2021	€50.000

7.1.3 International grants

Name	Project	Period	Budget
Hamaker, E.L., Utrecht University	ERC Consolidator	2020-2025	€2.000.000
Mulder, J., Tilburg University	ERC Starting Grant	2018-2023	€1.500.000
Wicherts, J.M., Tilburg University	European Research Council (ERC)	2017-2022	€2.000.000
Jansen, B.R.J., Stevenson, C., Maas, H. L.J. van der, UvA	COVID-19 Education Challenge, Jacob's foundation	2021-2022	€ 94.052

7.1.4 Other grants

Name	Project	Period	Budget
Sukpan, C., Utrecht University	Inequality-constrained model selection (for dynamical models)	2019-2022	€220.000
Heijden, P.G.M. van der, Utrecht University	Applied Data Science	2017-2021	€200.000
Heijden, P.G.M. van der, Utrecht University	Applied Data Science	2018-2022	€1.400.000
Cai, M., Utrecht	PhD project	2018-2022	€220.000

University			
Qi, Q., Utrecht University	PhD-project	2019-2023	€220.000
Tang, D., Utrecht University	PhD-project	2020-2024	€220.000
Sayed, K., Utrecht University	PhD-project	2020-2024	€220.000
Wu, S., Utrecht University	PhD-project	2017-2021	€220.000
Aarts, E. Utrecht University	Healt Holland	2020-2024	€225.000
Schoot, A.G.J. van de, Utrecht University	ZonMw-NWA	2020-2025	€35.333
Oberski, D.O. & Lugtig P.J., Utrecht University	ODISSEI	2020-2024	€808.000
Sijtsma, K., Vera Lizcano, J.C., Van Deun, K., Tilburg University	Data science grant (Tilburg University) PhD	2018-2022	
Bolsinova, M., Tilburg University	Spencer Foundation and the National Academy of Education (USA)	Jan. 2020 - July 2021	USD 35.000
Lodder, P., Tilburg University	Elsevier & EAPM Young Investigator Award	2020	
Nuijten, M., Tilburg University	Open Science Champion Award (Open Science Community Tilburg University)	2020	
Nuijten, M., Tilburg University	Herbert Simon Research Institute Seed Funding for COVID19 Research	2020	€10.000
Nuijten, M., Tilburg University	Center for Open Science / SCORE project	2020	USD 10.500
Schwabe, I., Ghering, K., Butterbrod, E. Verhaak, Sitskoorn, M. Tilburg University, Verhaak, E., (ETZ), Rutten, G.J. (ETZ),	HSRI seed funding beurs (10.000 Euro)		€10.000
Klein, R., Tilburg University	SIPS Commendation		
Ceulemans E., Adolf J. (FWO)	Het bepalen van de vereiste steekproefgrootte voor intensieve	01/10/2021 - 31/12/2024	€449.135,78

	longitudinale onderzoeksopzetten.		
Tuerlinckx F., Kuppens P., Vandaele T., Germeys I.	“m-Path: Een op experience sampling gebaseerde tool voor blended care.”	01/10/2020 - 30/09/2023	€414.969
Ceulemans E.	EOS: Biobehavioral triadic dynamics of stress resilience in families	01/01/2022 - 31/12/2025	€606.149
Kuppens P.	H2020: e-Coach-applicatie voor de preventie van obesitas bij kinderen	01/01/2021 - 31/12/2021	€18.489
Kuppens P., Ceulemans E., Gomes de Mesquita B.	iBOF-21-090 - RECONNECT: Emotionele verbinding over levensdomeinen heen	01/01/2021 - 31/12/2021	€1.6m
Mestdagh M. (FWO)	Postdoc	01/10/2020 - 30/09/2023	
Dejonckheere E. (FWO)	Postdoc	01/10/2020 - 30/09/2023	
Everaert J. (FWO)	Postdoc	01/10/2021 - 30/09/2024	
Kuppens P., Lazarus G. MSCA (ERC)	Personalized Prediction and Intervention for Behavioral Avoidance and Maladaptive Affective States	01/10/2020 - 30/09/2023	
Tuerlinckx, F. (co-promotor) (2019)	Higher Education Learning Platform for Quantitative Thinking (Erasmus +)	1/09/2019 – 31/08/2022	€30.186,64
Tuerlinckx, F., Van Mechelen, I., Kuppens, P., Ceulemans, E., & Vanpaemel, W.	Ontsporing van het affectieve systeem: Meting, vroegtijdige detectie en onderliggende mechanismen excellentielabel	1/10/2019 – 30/09/2023	€142.240
Tuerlinckx, F., Van Mechelen, I., Kuppens, P., Ceulemans, E., & Vanpaemel, W.	Ontsporing van het affectieve systeem: Meting, vroegtijdige detectie en onderliggende mechanismen	1/10/2019 – 30/09/2023	€1.422.400
Van Mechelen I., Tuerlinckx F., Kuppens P., Ceulemans E., Vanpaemel W.	Ontsporing van het affectieve systeem: Meting, vroegtijdige detectie en onderliggende Mechanismen	1/10/2019- 30/09/2023	€1.422.400

7.2 Awards and grants honored to IOPS phd students

7.2.1 Scientific awards

Name	Award	Date
Wouter van Loon	PhD publication Award	18 december 2020
Leonie Vogelsmeier	IOPS Best Presentation Award	Winter 2020
Damiano D'Urso	IOPS Best Poster Award	Winter 2020

7.2.2 Grants

Name	Project	Period	Budget

8. Finances

8.1 Financial statement 2020

Receipts

The participating institutes of Leiden University, University of Amsterdam, VU University of Amsterdam, University of Groningen, University of Twente, Tilburg University, Utrecht University, KU University of Leuven, Statistics Netherlands (CBS), and Cito Arnhem contributed financially according to the number of their PhD students that participated in IOPS on 1 July 2020.

The participation fee for 2020 was € 700 per PhD student. Associated institutes with PhD students in the IOPS Graduate School, participated on the same terms. Apart from the above mentioned annual contributions, no other funds are available for the IOPS Interuniversity Graduate School.

This resulted in a debit balance for the year 2020 of € 1.392,66

8.2 Summary of receipts and expenditures in 2020

Receipts		Expenditures		
		Salaries IOPS office		
		Secretary, 0,4 fte	26.444,49	
Contribution participating institutions	47.300,00	Salary director 0,1fte	18.418,54	
		Other personnel costs		
		Subtotal		44.863,03
		Printed matter	0,69	
		Travel	19,00	
		Representation costs	315,72	
		Webhosting	108,90	
		Best Paper Award	600,00	

Subtotal Receipts	47.300,00	Subtotal	1.044,31
Positive financial outcome 2020	-1.392,66		
Total receipts	48.682,08	Total expenditures	45.907,34

8.3 Balance sheet 2020

IOPS Own Funds 2020

Debet	Euro	Credit	Euro
Own Funds 31-12-2020	55.294,50	Own Funds 01-01-2020	53.901,84
		Results 2020	1.392,66
Total Debet	55.294,50	Total Credit	55.294,50

9 Appendix 1: Contact details of IOPS institutes

9.1.1 Participating Institutes

University	Department	Address - contact	E-mail
Leiden University Faculty of Social and Behavioural Sciences			
	Methodology and Statistics Unit Institute of Psychology	P.O. Box 9555, 2300 RB Leiden Secretary: Ingrid Penning	secr.psy.ms@fsw.leidenuniv.nl
	Education and Child Studies Institute of Education	P.O. Box 9555, 2300 RB Leiden Secretary: Esther Peelen	peelene@fsw.leidenuniv.nl
	Statistical Science for the Life and Behavioral Sciences Mathematical Institute	P.O. Box 9512, 2300 RA Leiden Michelle Krens	
University of Amsterdam Faculty of Social and Behavioural Sciences			
	Psychological Methods Department of Psychology	Nieuwe Achtergracht 129-B Postbus 15906, 1001 NK Amsterdam Secretary: Lilian Heijmans	mlsecretariaat-fmg@uva.nl
	Developmental Psychology Department of Psychology	Postbus 15916, 1001 NK Amsterdam Secretary: Helma Kruijk	opsecretariaat-fmg@uva.nl
	Work and Organizational Psychology Department of Psychology	Nieuwe Achtergracht 129 B, Amsterdam Postbus 15919 Secretary: Jeannette van den Akker	aosecretariaat-fmg@uva.nl
	Methods and Statistics Department of Psychology	Nieuwe Achtergracht 127, Amsterdam Postbus 15906 Secretary: Marielle de Reuver	J.M.deReuver@uva.nl
University of Groningen Faculty of Behavioural and Social Sciences			
	Psychometrics and Statistics Department of Psychology	Grote Kruisstraat 2/1, 9712 TS Groningen Secretary: Hanny Baan	j.m.baan@rug.nl

	Theoretical Sociology Department of Sociology	Grote Kruisstraat 2/1, 9712 TS Groningen Secretary: Josse van Geffen	j.van.geffen@rug.nl
	Department of education	Secretary: Stephanie Muller	stephanie.muller@rug.nl
University of Twente Faculty Behavioural, Management and Social Science (BMS)			
	Department of Research Methodology, Measurement and Data Analysis (OMD)	P.O. Box 217, 7500 AE Enschede Secretary: Ellen Hofstede	e.f.b.hofstede@utwente.nl
Tilburg University Tilburg School of Social and Behavioral Sciences			
	Methodology and Statistics	P.O. Box 90153, 5000 LE Tilburg Secretary: Anne-Marie van der Heijden	a.m.j.heijden@uvt.nl
Utrecht University Faculty of Social and Behavioural Sciences			
	Methodology and Statistics	Padualaan 14, 3584 CH Utrecht P.O. Box 80.140 Secretary: Chantal Molnar-van Velde	c.molnar@uu.nl
KU Leuven, University of Leuven, Belgium Faculty of Psychology and Educational Sciences			
	Research Group of Quantitative Psychology and Individual Differences	Tiensestraat 102 box 3713, B-3000 Leuven, Belgium Secretary: Nathalie Humblet	nathalie.humblet@kuleuven.be
Statistics Netherlands (CBS), Den Haag			
		P.O. Box 24500, 2490 AH Den Haag Ton de Waal	t.dewaal@cbs.nl
Psychometric Research Center (Cito), Arnhem			
		P.O. Box 1034, 6801 MG Arnhem Secretary: Eline Veerman	Eline.Veerman@cito.nl

9.1.2 Cooperating institutes

University of Groningen Faculty of Behavioural and Social Sciences	
Department of Education	Grote Rozenstraat 38, 9712 TJ Groningen
VU University Amsterdam Faculty of Psychology and Education	
Department of Clinical Psychology	Van der Boechorststraat 1, 1081 BT Amsterdam
Department of Biological Psychology	Van der Boechorststraat 1, 1081 BT Amsterdam
Maastricht University Faculty of Health, Medicine and Life Sciences & Faculty of Psychology & Neuroscience	
Department of Methodology and Statistics	P.O. Box 616, 6200 MD Maastricht
Erasmus University Rotterdam	
Department of Econometrics	P.O. Box 1738, 3000 DR Rotterdam
Department of Psychology, Education & Child Studies	P.O. Box 1738, 3000 DR Rotterdam
Wageningen University	
Biometrics	P.O. Box 8130, 6700 EW, Wageningen