

Statistical Methodology and Computing Service
Report of Activities
1 January 2010 to 31 August 2011

Contents

Introduction	3
News	4
Organization	4
Office hours in Science and Technology	4
Statistical Computing	4
Administration	4
People	5
Management	5
Consultants	5
Associated Consultants	6
Researchers at the ISBA	6
Trainers	6
Interns	6
Training	7
Continuing Education	7
Portfolio	7
Statistics	8
Consulting	9
Types of Consultancy	9
Statistics	9
Statistical Computing	11
Servers and Statistical Software	11
Quality	12
Training	12
Consultancy	12
Quality Survey	12
Appendix	14
List of Trainings	14
Public tenders applications	17
Publications and Presentations by SMCS members in 2010-2011	17
Contribution to Research	17
Articles	17
Reports	20
Presentations / posters	21
Projects	23
Quality Survey : List of comments	24

Introduction

Introduction

Dear colleagues,

As most of you already know, the SMCS (Statistical Methods and Computing Service) has been created in 2007 by merging the support for the Statistical Applications Server and the internal statistical consultancy services of the “Institut de Statistique” (now ISBA). Since 2010 it is recognized as a technology platform within the IMMAQ and its personnel is currently attached to the Humanities Sector of UCL.

This report serves to document the activities of the SMCS from 1 January 2010 to 30 September 2011 and to give an overview of initiatives which have recently started or which are planned for the near future. The report includes usage statistics, a list of publications to which the SMCS has provided assistance, and the results of a recent quality survey.

Overall, the activities of the SMCS show steady growth within the university community and beyond. Per year we now deliver more than 800 person days of continuing education in practical statistical methodology and software use and we provide statistical advice to more than 250 research projects (from short advice to more extensive collaboration). Moreover, in collaboration with the SGSI, we give assistance on using and installing statistical software. Our assistance reaches all three sectors and also extends to the university administration and external entities such as the BioWin program of the Walloon Region. Finally, to respond to strong demand from the Science and Technology sector, we now started weekly office hours at a convenient location at the Institute of Life Sciences.

One of our activities concerns managing the Statistical Applications Server which primarily hosts an installation of the statistical software SAS for use with storage and performance demanding projects. We are currently overseeing a further upgrade of this tool and we will make this service easier and more attractive to use for the university community.

The results of our latest service quality survey confirm the unique role our service plays for researchers at UCL. There were three main concepts for which we received praise: availability, timely service, and skill. Improvement suggestions included increasing the visibility of our services in the university, better targeting audiences of some of our trainings, and further increasing our resources. We thank all those who answered and promise that we will use their suggestions to improve further.

Our greatest short term challenge is financial. As already mentioned in the activities report of 2009, we only have institutional funding for two full time equivalents of consulting staff and none for administrative support. This is insufficient for fulfilling our mission. In the past, this shortfall could be compensated by annual FSR contracts but this is no longer the case. We still received some non-recurrent funds from the rectorat for 2011 and 2012 and it is now time to find a permanent solution. We cannot continue paying for part of a salary of a consultant serving the university from external consulting revenue which either requires to reduce internal services or to work overtime.

We are proud that the SMCS is now a highly efficient service which is greatly appreciated by its clients. Please help us to overcome the remaining challenges which are still threatening the future of this service.

Enjoy reading,

Christian Ritter, president of the managing committee (comité de gestion).

News

News

Organization

In June 2011, the managing committee (comité de gestion) approved the ROI (bylaws) of the SMCS 2011 and elected Christian Ritter as its president.

Office hours in Science and Technology

Since the start of the fall term of 2011, one of our consultants holds weekly office hours at a convenient location for clients from the ISV and ELI institutes. This responds to a steady stream of request and we feel that a closer contact will further enhance the collaboration.

Statistical Computing

We are currently modernizing the statistical applications server and its access. The new hardware is a dual high performance server with fast disk access. Having a dual server allows us to carry out maintenance without having to discontinue services. Moreover, the new architecture is laid out for fast disk access which is useful for running demanding SAS requests. With the new servers, SAS users will have a fast and very reliable system. Moreover, the capacity of the servers considerably exceeds the needs of the SAS users most of the time. This leaves an attractive capacity in high performance computing for other research applications. We therefore decided to equip the servers with general purpose GPU cards which allow highly parallel processing.

In addition to greatly enhancing the computing power of the new system, we will also improve the way this system can be accessed by its users. We believe that the resulting system will be user friendly enough that many local installations of SAS which have existed due to limitations of the existing server system will no longer be necessary.

Besides computing power, a server based installation of statistical software has the advantage that the data only have to be stored in a single place while they can be accessed by authorized users from several locations. Data on such servers can be effectively protected against

accidental loss or intrusion. In this context, access will be via encrypted secure connections only.

We strongly believe that after an era of distributed personal computing, the tendency is shifting back to server based computing coupled with user friendly remote access. Soon, students and researchers will wish to access their projects via internet based tools, such as tablets and smartphones. We therefore anticipate this trend and experiment with new forms of access and collaboration.

The physical installation and maintenance of the system will be managed by the CISM (center of high performance computing and mass storage) and we shall collaborate with this group in the area of parallel computing.

We are also collaborating with the SGSI in the area of distributed desktop environments and we will probably assess the actual and potential use of SAS and JMP throughout the university to provide guidance for future contract negotiations and to better focus training programs in these applications.

Besides our support for statistical high performance computing we also run a smaller server for statistical programs which are seldom used. This allows institutes who acquire specialized statistical software to host them in a central location. This is also a place where any member of UCL can request installation of statistical software. If such software is of more general interest, we can help with the purchase or licensing.

Administration

We are currently testing a newly designed database to handle our requests for consultancy and training. This includes identification of clients, reporting of project related information and course enrollment. We hope that this new tool will significantly reduce time spent on non-value-added administrative tasks.

People

People

Management

Director: Bernadette Govaerts (since April 2011 replaced by Nathalie Lefèvre)

President of Management Committee (since June 2011) : Christian Ritter

Administrative assistant : Nancy Guillaume

Master professionnel Sciences, Santé, Technologie, mention Mathématiques et Applications, spécialité Ingénierie Mathématique, Université de Nantes, 2005

DEA en informatique, Université de Nantes, 2004

Nathalie Lefèvre (UCL/IMMAQ/SMCS and IPSY)

Main areas of activity : Humanities Sector (SSH) and University Administration.



Consultants

Céline Bugli (UCL/IMMAQ/SMCS)

Main areas of activity : Medical Sector (SSS), Science and Technology Sector (SST), services for external clients.



Doctor of Science – Statistique, Institut de Statistique, Université catholique de Louvain, Louvain-la-Neuve, Belgium, 2006

Master (DEA) in Statistics, Institut de Statistique, Université catholique de Louvain, Louvain-la-Neuve, Belgium, 2003

Ingénieur Civil en Mathématiques Appliquées, Université catholique de Louvain, Louvain-la-Neuve, Belgique, 2001

Alain Guillet (UCL/IMMAQ/SMCS)

Main areas of activity : Medical Sector (SSS), and statistical computing.



Master en Statistique, Institut de Statistique, Université catholique de Louvain, Louvain-la-Neuve, Belgique, 2007

Doctorat en Sciences psychologiques, Université catholique de Louvain, Louvain-la-Neuve, Belgique, 2003

Licence en Psychologie et en Sciences de l'Education, orientation psychologie expérimentale Université catholique de Louvain, Louvain-la-Neuve, Belgique, 1992.

Catherine Rasse (UCL/IMMAQ/SMCS)

Main areas of activity : Science and Technology Sector (SST), data bases.



Master (DEA) en Statistique, Faculté universitaire des Sciences agronomiques, Gembloux, Belgique, 2007.

Ingénieur agronome, orientation Génie rural, Faculté universitaire des Sciences agronomiques, Belgique, Gembloux, 2001.

People

Associated Consultants

Associated consultants are professors or consultants who collaborate with the SMCS on trainings and consulting projects but who are not formally SMCS staff.

Professors

Bernadette Govaerts (UCL/IMMAQ/ISBA)

Main areas of activity: Industrial statistics, bio-informatics.

Catherine Legrand (UCL/IMMAQ/ISBA)

Main areas of activity : biostatistics.

Christian Ritter (UCL/IMMAQ/ISBA)

Main areas of activity: Industrial statistics, statistical computing.

Consultants at other institutes

Nathalie Lefèvre (UCL/IPSY)

Lorise Moreau (UCL/IACCHOS)

Successor of Jean-Pierre Lemaitre (UCL/IMMAQ)

Researchers at the ISBA

Some researchers and doctoral students of the ISBA participate in the consulting and training activities of the SMCS. This gives them an opportunity to gain valuable experience in practical statistics.

Trainers

The following list gives the names of the persons who have participated in the training activities of the SMCS. This includes SMCS and associated consultants, other members of the ISBA, visitors, and external trainers.

Céline Bugli (SMCS), Karim Chine (Cambridge, UK), Céline de Puydt (intern UCL), Bernard Francq (ISBA), Bernadette Govaerts (ISBA), Alain Guillet (SMCS), Jonathan Jaeger (ISBA), Lorise Moreau (IACCHOS), Nathalie Lefèvre (SMCS), Catherine Rasse (SMCS), Christian Ritter (ISBA), Réjane Rousseau (SMCS), Cédric Taverne (ISBA), Jonathan Tilquin (IPSY), Nathan Uyttendaele (interns UCL), Sophie Vause (IACCHOS), Sam Waltener (FUSL), SAS Institute trainers.

Interns

Erik Doffagne (2009-2010): sample size calculation and consultancy in biostatistics.

Cecile de Puydt (2009-2010): comparison of survey software, multivariate analysis.

Jessica Minkue Mi Edou (2010-2011): several consulting projects.

Nathan Uyttendaele (2010-2011): high performance computing.

Training

Training

Continuing Education

The SMCS offers wide range of courses related to the use of statistical software. This section describes the types of courses which are currently offered (a detailed list is included in the appendix). We systematically monitor the quality of our training and act improvement opportunities (see the section on quality).

Portfolio

The SMCS offers the following types of training:

- Regular 2-3 day courses (once or twice per year) on commonly used statistical software at UCL (SPSS, R, SAS, SAS Enterprise Guide, JMP, Stata, NVivo).
- Courses taught in partnership with SAS : Some of the annual or special courses qualify for sponsoring from SAS. This allows inviting trainers with know-how in special subject areas and to host the trainings in a more comfortable way (coffee breaks, lunches, professional course notes). The course 'Statistical modeling in JMP' taught by B. Govaerts, B. Francq and C. Rasse belongs to this program.
- Courses sponsored by BioWin, a project to enhance the competitiveness of health related enterprises in the Walloon region. Courses offered within this framework are centrally advertised and course fees are partially subsidized. The SMCS contributes a course on Statistical Experimental Design (taught by B. Govaerts, C. Rasse and B. Francq).
- Customized courses are trainings which are tailored to specific needs of clients (UCL and external). Since their preparation requires more time and resources for preparation and teaching, extra costs occur which have to be paid by the client organization. An example of such trainings is the course on mixed models in SPSS for social sciences.
- Special courses, taught on occasion by invited trainers. An example of such events is the course taught by J.Tilquin on structural equation analysis using the software AMOS.

- SMCS lunch sessions (Midis du SMCS) are short (1-3h) informal demonstrations of statistical methods or software of particular practical interest. The presentation "Education and Science in the cloud: Towards a Ubiquitous Collaborative Virtual e-Research and e-Learning Environment » by K. Chine is part of this program. SMCS lunch sessions are free and don't require enrollment.
- Remedial courses for UCL students are special events which are dedicated to students in a Master's program who need special preparation before they can follow the regular course offering or benefit from statistical consulting. When we become aware of such situations, we contact the corresponding institutes to inform them and to elaborate an approach for filling the knowledge gap. Such structural gaps require an adaptation of the general purpose statistics or computer courses and we can offer remedial training to alleviate the problem until a long term solution can be found. For example, our interventions have led to an adaptation of the course LIEPR1026 and the creation of the course LKINE1300 on research methodology. Since then, the demand by students has dropped back to a normal level (see 'UCL students' in Table 1).

Training

Statistics

Table 1 shows how the number of courses, course days, and participant days evolved since 2008. We see that the number of courses and training days doubled within two years. Currently, with about 30 courses the SMCS delivers more than 800 person days of training to a public spread over many institutes and all three sectors of UCL. The numbers of participants from the SSH and SST sectors have increased steadily. For the Medical Sector SSS, they are growing much slower. Our quality survey and routine contacts with members from the SSS sector suggest that some courses should be offered at the Brussels-Woluwe site. We are considering this option for 2012.

Our courses are open to external participants and we offer specialized trainings for enterprises and institutions at UCL (BioWin and SAS) and more recently also at client locations (Council of the European Union-Brussels, the Université de Bourgogne-Dijon, Kapedia at Nancy). This explains the strong increase of the number of external participants.

Note that the participation statistics do not cover the SMCS lunch session since they do not require registration.

The Appendix lists all trainings offered between January 2010 and August 2011.

Table 1. Number of courses and of course participants from 2008 up to August 2011

	2008	2009	2010	2011*
Number of trainings	14	19	27	16
Number of training days	27	42	56	37
Number of person days	n.a.	793	816	416
Participants SSH	81	90	142	76
SSH/DROIT			2	
SSH/IACCHOS		38	42	
SSH/ILC		8	13	
SSH/ILSM		12	5	
SSH/IMMAQ		23	6	
SSH/INCAL		2	2	
SSH/IPSY		54	6	
SSH/ISPOLE		3	2	
Participants SSS	43	52	54	10
SSS/IONS			1	1
SSS/IREC		18	3	
SSS/IRSS		23	6	
SSS/LDRI		5		
St Luc		7		
Participants SST	40	54	72	42
SST/ELI			56	35
SST/ICTM			1	1
SST/IMCN		7	1	
SST/ISV		8	5	
Other				
UCL-other	22	28	9	
UCL students	66	69	37	17
Académie Louvain	13	28	16	16
External	20	49	115	50
Total	285	359	445	211

* Until 31 August 2011

Consulting

Consulting

One of the principal activities of the SMCS is to provide methodological consultancy to researchers. Most of the time, the objective of these collaborations is to enable the researchers to solve their problems by themselves. This may involve coaching a researcher in using certain statistical method or piece of software. Often this is limited to giving advice but it can also evolve into a series of consulting meetings with a research group or a company and can also include involvement in study design, execution, and analysis.

Types of Consultancy

The SMCS distinguishes three kinds of consultancy :

- Advice : Answers to specific and well defined requests which can be answered within an hour. Answers may be given by telephone or email but this usually requires that the SMCS consultant already knows the research group and topic. Otherwise the risk to giving the right answer to the wrong question is too high. So far, instances of short advice are not systematically logged and analyzed.
- Assistance : Interventions which require a bit more time and effort from the consultant (1-6 hours). In such situations, the consultant analyzes the structure of the problem, gives ideas on approaches (methodology, techniques, software), or provides assistance in the interpretation of results. The SMCS consultants document such interventions and keep the documentation in the SMCS archive.
- Collaboration : This type corresponds to larger interventions where one of the SMCS consultants is responsible for a part or all of the work. In general, a financial contribution corresponding to the involvement is required and, if the work corresponds to an intellectual contribution to research itself the SMCS member should be listed as co-author, otherwise, an acknowledgement is appropriate. Obviously, such collaborations are only possible when an SMCS member has the required

qualification and the work load allows it. Collaborations require an agreement between the research group and the managing director of the SMCS.

Statistics

The SMCS consultancy is primarily aimed at UCL research. On the other hand, as Table 2 shows, some consulting projects also involve the university administration, the university hospital, and, work with Master's students. In principle, university regulations do not allow us to assist Master's students. An exception occurs when the research occurs in close collaboration with the academic advisor of the Master's students and when this advisor participates actively in the collaboration. When we notice that we get involved in a large number of Masters projects in the same institute or school, we contact the manager of the Master's program in order to find a systematic solution, often in form of a course or a part of a regular course. Exceptionally, we can also offer custom training until a permanent solution is found.

Overall, between 01/01/2010 and 31/08/2011, the SMCS became involved in 425 projects (253 in 2010) of which most originated within the Académie Louvain. The remaining 13 projects (9 in 2010) concerned consultancy for external clients from the private or public sector or from educational organizations which are not part of the Académie Louvain. The number of new external projects has gone down since some collaborations which started in 2009 and 2010 still continue (Belgian Red Cross ...). In Fall 2011 a large collaboration with the IBPT (the Belgian regulator of the telecommunications market) started and little extra resources for external work will be available during the rest of 2011 and during 2012.

The number of projects developed for an administrative entity of the UCL or Académie Louvain is increasing. These projects are funded and concern entities such as IPM, ADEF.

In addition of identified consulting projects (assistance and collaboration) the SMCS consultants gave short advice on many occasions. These are not systematically recorded.

Consulting

Table 2. Origin of consulting projects

Client split	2009	2010	2011*
Research	183	182	122
University Hospital		12	3
Master's projects / Other	70	55	40
Admin	3	4	9
External clients	7	9	4
Total	263	262	178

* until 31 August 2011

Table 3 shows the split of the consulting projects for university clients by sector and by institutes. Clearly, the services of the SMCS are used in all three sectors and reach most institutes.

SSH remains the sector with the highest number of projects. One of the reasons for this is that one of the SMCS consultants also holds a half time appointment in the IPSY and one of the associates works in IACCHOS. This makes the service offers (courses and consultancy) more visible to members of SSH.

In 2011, the SMCS has therefore increased its presence in SST and this has revealed a considerable latent demand. In Fall 2011, the SMCS is starting weekly office hours at a convenient location in SST and an additional increase in requests can be expected. Initiatives with the SSS sector will follow in 2012.

Finally, the SMCS submitted several public tender applications since 2010 (Contracting authority : BioWin, IBPT, ...). Three were accepted, one is still pending. The details of these tender applications are given in the appendix.

Table 3. Projects by institute

Origin of request	2009	2010	2011*
SSH	152	127	82
SSH/IPSY		99	61
SSH/ILSM		7	8
SSH/IACCHOS		8	3
SSH/IMMAQ		5	6
SSH/ISPOLE			2
SSH/JURI		1	
SSH/ILC		5	2
SSH/INCAL		2	
SSS	58	75	37
IONS		13	9
IREC		22	11
IRSS		12	7
Saint-Luc, Mt Godinne		13	4
DDUV			2
FSM		12	2
LDRI		3	2
SST	39	41	48
SST/ELI		27	21
SST/ISV		11	19
SST/ICTEAM			2
SST/IMMC		1	5
SST/IMCN		1	
SST/LOCI		1	1
Other	7	10	7
Admin		1	6
AL/UCL other		9	1
Number of projects	256	253	174
Number of hours		769	> 600

* until 31 August 2011

Computing services

Statistical Computing

Servers and Statistical Software

Servers

The SMCS maintains two servers, a statistical computing server with SAS, Matlab and R, and a software sharing server for smaller or single user applications (currently HLM, Lisrel, and MPlus are installed). Moreover the SMCS works with the SGSI on several activities related to making statistical software available at the UCL.

In 2010 and 2011 the statistical computing server was mainly used by people from ELI, IACCHOS, IRSS, ISBA and ISV. Within 2 years usership increased from 40 to 60. Most of them are SAS users. The advantage of working with the server is data sharing and security and that larger databases can be kept and analyzed than with personal computers.

The statistical computing server will be replaced in September 2011 by a dual server of which each part is equipped with a 12 core Intel Xeon X5675 processor, 96 GB of RAM, rapid disks for a total of 2100 GB. Moreover, Tesla GPU cards 2090 are coupled both systems. These cards enable the system to perform certain computations in a highly parallel fashion (512 processors). The CISM will help us to manage these two machines (the CISM will be in charge of the operating system and the user management whereas the SMCS will look after the statistical software). SAS, R and some more software will be available. The new system will therefore offer a lot more performance to the benefit of a growing user community.

The other server system hosts smaller statistical application like HLM, Lisrel, MPlus. The idea behind the statistical sharing server is that some specialized statistical programs are initially purchased and used by single individuals or work groups. However, use may be limited and these programs may also be of interest to other researchers at UCL. An installation on a terminal server is therefore ideal. It gives the main user the access he or she needs while allowing others to use the program when it is not used by the main user. The

software sharing server also allows to host statistical software which are no longer used but which need to be kept for follow up or future work.

Access to the sharing server was opened in late 2010 to people who agreed to experiment with using statistical software on a remote computer. There now are 15 users from SSH. Some of the installed programs were paid by IPSY. We encourage other university members to host suitable statistical software on this system for their own use and for the benefit of others.

Although fully operational, we consider this server still is in a testing stage. We will continue to monitor cost and benefit of this solution and adapt our offer accordingly.

Statistical Software

Beside the collaboration with the CISM in managing the future SMCS servers and improving the use of parallelized R code on the CISM servers, the SMCS works with the SGSI about the choice of statistical software and the most effective way of promoting them. In this context, we are publishing a section of our web pages dedicated to documentation on software available at UCL (basic documentation, availability, procedure of installation or activation). The address of this web page is <http://www.uclouvain.be/324590.html>.

We also support the UCL helpdesk and students when there are problems with installing UCL supported statistical software.

The SMCS promotes the idea that every university member who requests it should have free and un-bureaucratic access to basic statistical software such as SPSS, SAS Enterprise Guide and JMP. Negotiations with the university authorities and the SGSI are ongoing.

Quality

Quality

The SMCS monitors the quality and impact of its services in order to detect opportunities for improvement and rationalization.

Training

The SMCS systematically surveys the participants of its trainings in order to assess the perceived quality of delivery and design. This has already lead to the creation of new trainings and a better organization of the group of trainers.

In this context, the number of offered courses increased from 9 to 27 in 3 years. This was only possible by increasing the SMCS team and by involving additional trainers (UCL and external) in the training program. Among the additional trainers were the associated consultants (L. Moreau, IACCHOS; N. Lefèvre, IPSY), some assistants of the ISBA (J. Jaeger, B. Francq, C. Taverne, R. Rousseau) and some assistants of other institutes (S. Vause, ESPO; X. Dumay and J.C. Meunier, PSP). For the latter members of the training team, the SMCS platform gave them the opportunity to share their specific expertise with a larger audience.

We are now eliciting more information from the participants who enroll in order to better supply them with announcements for future trainings which could correspond to their needs.

Participants who attended a sufficient part of a training now receive a certificate which may serve them in the framework of their doctoral studies or elsewhere.

We now better target our course announcements. Besides sending direct invitations to potentially interested people we now have improved web pages with detailed course programs.

We also created a common identity for all of our courses. This includes the course structure, teaching philosophy, and course documentation.

After each course, all participants are invited to fill in a course evaluation survey. The result of these surveys allows us to improve the courses and to extend the course offerings according to the suggestions made by

the participants. These surveys also give an impression of the perceived quality of the course (general, delivery, and adequacy of exercises, organization including timing and course facilities).

Most of our courses are now recognized by the IUFC as « Programme de formation continue qualifiant » which gives them better visibility. Since 2008, the courses of the SMCS also count as continuing education for university personnel and can be part of their appraisal.

Consultancy

With respect to coaching Master's students, we now request that the academic advisors of the students participate in the consulting meetings we hold with their students in order to make them aware of potential systematic knowledge gaps which need to be filled.

Quality Survey

For several years, the SMCS started a process of assessing and improving the quality of its services. As a part of this process, all participants of trainings are surveyed (see above). A more detailed survey is carried out once per year. We contact all persons who solicited help from the SMCS during the year. We ask what they appreciated most about the service they received, whether they have suggestions on how to improve the service and also how our service has contributed the quality of their own work and whether the assistance has contributed in the preparation of a publication.

For the period from 1 January 2010 to 15 May 2011, 78 persons answered. The distribution of the replies corresponds approximately to the distribution of the requests.

Most respondents declared that they had contacted the SMCS primarily for methodological advice and for training. Moreover, the respondents identified 89 documents and presentations to which the SMCS has provided assistance (16 publications in preparation, 25 publications in revision or waiting acceptance, 13 publications in press or published, 30 presentations and posters, and 5 reports). A detailed listing of these communications can be found in Appendix 'Contribution to Research'. Furthermore respondents identified 21

Quality

research projects in which the SMCS was involved. Note that this summary only concerns the respondents. The actual impact is probably considerably higher.

We are currently improving our project database and will be able to give a more precise account of contributions in the future.

Appendix 'Quality Survey : List of comments' shows all the comments received from the respondents (in French). This list shows that the services provided by the SMCS are generally well-received. Three words stand out: timeliness, availability, and competence. On the side of suggested improvements and remarks, we see several mentions about insufficient visibility of the SMCS, some problems with teaching speed and delivery related to the courses, and some projects in which communications may not have been ideal. There were also suggestions to improve documentation and to introduce a chat.

In response to the remark, we are reviewing the documentation on our web site. As soon as our new statistical computing server is installed and tested, we shall inform potential clients about the most efficient way to access and use the system and keep detailed information about this on our web site. With respect to the trainings, we continue fine-tuning our course program, course notes and delivery in order to further improve customer experience. Finally, with respect to visibility, we have now started weekly office hours in the SST sector. These are currently held on Monday afternoons in an office located at the ISV institute. The service is available to all SST and not only to ISV. If this initiative is successful, we may extend the model to other locations.

Appendix

Appendix

List of Trainings

2010

Regular SMCS Courses

- Pratique de la statistique avec SPSS
 - Durée : Cinq séances de trois heures, du 4 au 8 janvier 2010
 - Formateurs : N. Lefèvre (SMCS), L. Moreau (IACCHOS)
 - Coordinateur : N. Lefèvre
- Cours d'initiation au langage R
 - Durée : Cinq séances de trois heures, du 11 au 15 janvier 2010
 - Formateurs : A. Guillet (SMCS), J. Jaeger (ISBA)
 - Coordinateur : A. Guillet
- Analyse multivariées en R Commander (FactoMineR)
 - Durée : Une séance de six heures, le 1er février 2010
 - Formateur : C. Taverne (ISBA)
 - Coordinateur : A. Guillet
- Statistiques Bayesiennes avec WinBUGS
 - Durée : Trois séances de trois heures trente, les 22 et 23 mars 2010
 - Formateurs : J. Jaeger (ISBA) et C. Bugli (SMCS)
 - Coordinateur : C. Bugli
- Introduction à un outil d'enquête en ligne : LimeSurvey
 - Durée : Une séance de sept heures, le 13 avril 2010
 - Formateurs : S. Waltener (FUSL) et C. de Puydt (UCL)
 - Coordinateur : N. Lefèvre
- Analyse multivariées en R Commander (FactoMineR)
 - Durée : Deux séances de trois heures, le 22 avril et 3 mai 2010
 - Formateur : C. Taverne (ISBA)
 - Coordinateur : C. Rasse
- Cours d'initiation au langage R
 - Durée : Cinq séances de trois heures, du 14 au 18 juin 2010
 - Formateurs : A. Guillet (SMCS), J. Jaeger (STAT)
 - Coordinateur : A. Guillet
- Pratique de la statistique avec SPSS
 - Durée : Cinq séances de trois heures, du 6 au 10 septembre 2010
 - Formateurs : N. Lefèvre (SMCS), L. Moreau (IACCHOS)

- Coordinateur : N. Lefèvre

- Cours d'initiation aux logiciels Weft et NVivo
 - Durée : Deux séances de 3 heures trente, les 14 et 15 octobre 2010
 - Formateurs : L. Moreau (IACCHOS), S. Vause (IACCHOS)
 - Coordinateur : N. Lefèvre
- Excel avancé et VBA au service de la statistique
 - Durée : Une séance de six heures, le 4 novembre 2010
 - Formateur : B. Francq (ISBA)
 - Coordinateur : A. Guillet
- Gestion et analyse des données avec stata
 - Durée : Cinq séances de 3 heures, du 29 novembre au 3 décembre 2010
 - Formateurs : L. Moreau (IACCHOS), B. Masuy (IACCHOS)
 - Coordinateur : A. Guillet
- Introduction à un outil d'enquête en ligne : LimeSurvey
 - Durée : Une séance de sept heures, le 21 décembre 2010
 - Formateurs : S. Waltener (FUSL) et N. Lefèvre (SMCS)
 - Coordinateur : N. Lefèvre

Special Courses

- Analyses et graphiques avec RExcel
 - Durée : Une séance de six heures, le 3 février 2010
 - Formateur : Ch. Ritter
 - Coordinateur : A. Guillet
- Analyse en équations structurelles avec AMOS
 - Durée : Deux séances de six heures, les 4 et 5 février 2010
 - Formateur : J. Tilquin (ISPY)
 - Coordinateur : N. Lefèvre

Courses in partnership with SAS

- Formation SAS : SAS advanced programming
 - Durée : Cinq séances de 35 heures, les 8, 15, 22 février, 1er et 8 mars 2010
 - Formateurs : Formateurs SAS Institute
 - Coordinateur : C. Bugli
- Data Discovery and Statistical Modeling with JMP
 - Durée : Deux journées, le 31 mai et le 1er juin 2010
 - Formateurs : B. Francq (STAT) et B. Govaerts (STAT)
 - Coordinateur : C. Rasse

Appendix

- Pratique de la statistique avec SAS/Enterprise Guide
 - Durée : Cinq séances de trois heures, du 7 au 11 juin 2010
 - Formateurs : N. Lefèvre (SMCS), C. Bugli (SMCS)
 - Coordinateur : N. Lefèvre
- Cours d'initiation à SAS/BASE
 - Durée : Cinq séances de trois heures, du 21 au 25 juin 2010
 - Formateurs : C. Bugli (SMCS), C. Rasse (SMCS)
 - Coordinateur : C. Rasse
- Formation SAS : programmation de base
 - Durée : Deux séances de sept heures trente, les 4 et 11 octobre 2010
 - Formateurs : Formateurs SAS Institute
 - Coordinateur : C. Bugli
- Cours d'initiation SAS/BASE
 - Durée : Cinq séances de trois heures, du 13 au 17 décembre 2010
 - Formateurs : C. Bugli (SMCS), C. Rasse (SMCS)
 - Coordinateur : C. Rasse

Courses in partnership with BioWin

- Plans d'expérience (cours Biowin)
 - Durée : Trois séances de sept heures, du 29 au 31 mars 2010
 - Formateurs : B. Govaerts (ISBA), B. Francq (ISBA) et C. Bugli (SMCS)
 - Coordinateur : C. Bugli
- Plans d'expérience (cours Biowin)
 - Durée : Trois séances de sept heures, les 29, 30 novembre et 6 décembre 2010
 - Formateurs : B. Govaerts (ISBA), C. Rasse (SMCS)
 - Coordinateur : C. Rasse
- Plans d'expérience – Formation pour HELHa (cours Biowin)
 - Durée : Trois séances de huit heures, les 19, 26 octobre et 9 décembre 2010
 - Formateurs : C. Bugli (SMCS), B. Franq(SMCS)
 - Coordinateur : C. Bugli

Custom Courses

- Modèles mixtes appliqués aux sciences sociales avec SPSS – Formation organisée pour une ARC en IPSY
 - Durée : Deux séances de 3 heures, les 26 février et 4 mars 2010
 - Formateurs : N. Lefèvre (SMCS) et C. Bugli (SMCS)
 - Coordinateur : N. Lefèvre

- How to use statistics to summarize information and as a tool - Formation organisée pour le Secrétariat Général du Conseil de l'Union européenne
 - Durée : Deux séances de six heures trente, les 20 avril et 4 mai 2010
 - Formateurs : Ch Ritter (ISBA), N. Lefèvre (SMCS)
 - Coordinateur : N. Lefèvre
- Comment utiliser la statistique pour synthétiser les informations et comme outil d'aide à la décision - Formation organisée pour le Secrétariat Général du Conseil de l'Union européenne
 - Durée : Deux séances de six heures trente, les 22 avril et 6 mai 2010
 - Formateurs : N. Lefèvre (SMCS) et Ch Ritter (ISBA)
 - Coordinateur : N. Lefèvre
- Modèles mixtes appliqués au domaine de la psychologie cognitive - avec SPSS - Formation financée par le CNRS et dispensée à l'Université de Bourgogne, Dijon
 - Durée : Deux séances de sept heures, les 24 et 25 novembre 2010
 - Formateur : N. Lefèvre (SMCS), C. Bugli (SMCS)
 - Coordinateur : N. Lefèvre

SMCS lunch sessions (Midi du SMCS)

- Analyses statistiques et "Data Management" - Nouveautés en SAS Enterprise Guide 4.2 : le 19 janvier 2010 - de 9h à 12h (formateur SAS)
- Applications en "Data Mining" avec le nouveau SAS Enterprise Miner 6.1 : le 19 janvier 2010 - de 14h à 17h (formateur SAS)

2011

Regular SMCS Courses

- Pratique de la statistique avec SPSS
 - Durée : Cinq séances de trois heures, du 10 au 14 janvier 2011
 - Formateurs : N. Lefèvre (SMCS), L. Moreau (IACCHOS)
 - Coordinateur : N. Lefèvre
- Cours d'initiation au langage R
 - Durée : Cinq séances de trois heures, du 17 au 21 janvier 2011
 - Formateurs : A. Guillet (SMCS), C. Rasse (ISBA)
 - Coordinateur : A. Guillet

Appendix

- Analyse multivariées en R Commander (FactoMineR)
 - Durée : Deux séances de sept heures, les 31 janvier et 1er février 2011
 - Formateur : C. Taverne (ISBA), C. Rasse (SMCS)
 - Coordinateur : C. Rasse
- Cours d'initiation au logiciel NVivo
 - Durée : Deux séances de 3 heures trente, les 17 et 18 mars 2011
 - Formateurs : L. Moreau (IACCHOS), N. Lefèvre (IACCHOS)
 - Coordinateur : N. Lefèvre
- Statistiques Bayesiennes avec WinBUGS
 - Durée : Trois séances de trois heures trente, les 6 et 7 avril 2011
 - Formateurs : J. Jaeger (ISBA) et C. Bugli (SMCS)
 - Coordinateur : C. Bugli
- Gestion et analyse des données avec stata
 - Durée : Cinq séances de 3 heures, du 16 au 20 mai 2011
 - Formateurs : L. Moreau (IACCHOS), A. Guillet (SMCS)
 - Coordinateur : A. Guillet
- Cours d'initiation au langage R
 - Durée : Cinq séances de trois heures, du 6 au 10 juin 2011
 - Formateurs : A. Guillet (SMCS), L. Moreau (IACCHOS)
 - Coordinateur : A. Guillet

Special Courses

- Analyses et graphiques avec RExcel
 - Durée : Deux séances de quatre heures, les 17 et 24 mars 2011
 - Formateur : Ch. Ritter
 - Coordinateur : A. Guillet
- Initiation aux typologies de parcours (TraMineR)
 - Durée : Deux séances de trois heures, les 15 et 16 juin 2011
 - Formateurs : L. Moreau (IACCHOS)
 - Coordinateur : A. Guillet

Courses in partnership with SAS

- Formation SAS : SAS advanced programming
 - Durée : Cinq séances de 35 heures, les 7, 21 février, 7, 21 mars et 4 avril 2011
 - Formateurs : Formateurs SAS Institute
 - Coordinateur : C. Bugli

- Data Discovery and Statistical Modeling with JMP
 - Durée : Deux journées, les 26 et 27 mai 2011
 - Formateurs : B. Francq (ISBA) et C. Rasse (SMCS)
 - Coordinateur : C. Rasse
- Cours d'initiation à SAS/BASE
 - Durée : Quatre séances de trois heures quarante-cinq, du 14 au 17 juin 2011
 - Formateurs : C. Bugli (SMCS), C. Rasse (SMCS)
 - Coordinateur : C. Rasse
- Pratique de la statistique avec SAS/Enterprise Guide
 - Durée : Cinq séances de trois heures, du 20 au 24 juin 2011
 - Formateurs : N. Lefèvre (SMCS), C. Bugli (SMCS)
 - Coordinateur : N. Lefèvre

Courses in partnership with BioWin

- Training program in Clinical Study – Biostatistics (cours ClinET - Biowin)
 - Durée : Trois séances de sept heures, les 28, 29 avril et 3 mai 2011
 - Formateurs : C. Bugli (SMCS) ; R. Rousseau (ISBA)
 - Coordinateur : C. Bugli
- Plans d'expérience (cours Biowin)
 - Durée : Trois séances de sept heures, les 9, 10 et 16 mai 2011
 - Formateurs : C. Rasse (SMCS), B. Francq (ISBA)
 - Coordinateur : C. Rasse

Custom Courses

- Cours d'initiation au langage R – Formation financée par Kapedia et dispensée à Nancy
 - Durée : Trois séances de sept heures, du 14 au 16 février 2011
 - Formateurs : J. Jaeger (ISBA)
 - Coordinateur : C. Rasse

SMCS lunch sessions (Midi du SMCS)

- Education and Science in the cloud: Towards a Ubiquitous Collaborative Virtual e-Research and e-Learning Environment : le 4 juillet 2011 - de 13h30 à 17h (K. Chine)
- Paralléliser un code R et l'exécuter sur une machine de calcul du CISM : le 10 juin 2011 - de 14h à 16h (N. Uyttendaele)

Appendix

Public tenders applications

- Recherche de formateurs pour les formations spécifiques BioWin en inter-pôles et pour les formations Cefochim
 - Contracting authority: BioWin
 - Submission Date : 01/2011
 - Status : Rejected
- Six Sigma in Healthcare (en collaboration avec l'université de Palerme, Italie)
 - Contracting authority: Education and Culture DG Lifelong Learning Programme: Leonardo da Vinci - Transfer of Innovation
 - Date : 03/2011
 - Status : Waiting
- 6^{ème} appel à projet : BioinformaTic Training Program (en collaboration avec le Forem)
 - Contracting authority: Service public de Wallonie
 - Submission Date : 03/2011
 - Status : Accepted, start in February 2012
- 6^{ème} appel à projet : Training program in clinical study
 - ClinET (en collaboration avec Biowin)
 - Contracting authority: Service public de Wallonie
 - Submission Date : 04/2010
 - Status : Accepted, started in April 2011
- Réalisation d'une enquête concernant la situation du marché belge des communications électroniques du point de vue des utilisateurs
 - Contracting authority: Institut Belge des Services Postaux et des Télécommunications (IBPT)
 - Sumission Date : 07/2010
 - Status : Accepted, to start in October 2011

Publications and Presentations by SMCS members in 2010-2011

Although the primary mission of SMCS members is to support other research projects, its members are encouraged to participate in scientific meetings, to make presentations, and to publish.

Publications

BAECK M, CHEMELLE JA, RASSE C, TERREUX R, GOOSSENS A. (2011) C16-methylated corticosteroids are less far allergenic than the non-methylated molecules. *Contact Dermatitis* **64** 305-312.

CARDENAS-FLORES A., CRANENBROUCK S., DRAYE X., GUILLET A., GOVAERTS B., DECLERCK S. (2011). The sterol biosynthesis inhibitor molecule fenhexamid impacts the vegetative compatibility of *Glomus clarum*, *Mycorrhiza*, Editions Springer.

DILUCA, S., LEFEVRE N., & PESENTI, M. (2010). Place and summation coding respectively for canonical and non-canonical finger numeral representations. *Cognition*, **117**, 95-100.

LOBET S., DETREMBLEUR, C., FRANCQ B. AND HERMANS C. (2010). Natural progression of blood-induced joint damage in patients with haemophilia: clinical relevance and reproducibility of three-dimensional gait analysis, *Haemophilia* (2010), 1-9.

Nader-Grosbois, N., Lefèvre, N. (2011). « Self-regulation and performance in problem-solving using physical materials or computers in children with intellectual disability », *Research in Developmental Disabilities*, **32**, 1492-1505.

RAPAILLE A., GUILLET A., DENEYS V., SONDAG, D., GOVAERTS B. (2010). Blood Component Production Statistical Process Control in Service Du Sang - Belgian Red Cross. In : *Vox Sanguinis : international journal of transfusion medicine* (2010), p. 134-134

Presentations

Celine Bugli and Bernadette Govaerts (2010), "The challenges of a statistical consulting service inside the university: an example of university-industry partnership", ENBIS 2010 conference, Antwerp.

Contribution to Research

The following lists relate to research to which SMCS members provided assistance.

Articles

IPSY

CROLLEN, V., MAHE, R., COLLIGNON, O., & SERON, X. (2011). The role of vision in the development of finger-number interactions: Finger-counting and finger-montring in blind children. *Journal of Experimental Child Psychology*, **109**, 525-539.

Appendix

- TOMA, C., YZERBYT, V., & CORNEILLE, O. (2010). Anticipated cooperation vs. competition moderates interpersonal projection. *Journal of Experimental Social Psychology*, **46**, 375-381.
- STIEVENART, M., ROSKAM, I., MEUNIER, J.-C., & VAN DE MOORTELE, G. (2011). The reciprocal relation between children's attachment representations and their cognitive ability. *International Journal of Behavioral Development*, **35**(1), 58-66.
- TOMA, C., CORNEILLE, O., & YZERBYT, V (soumis). Holding a Mirror up to the Self: Social Projection at the Service of Anticipated Success in Cooperation. *Journal of Personality and Social Psychology*.
- TOMA, C., YZERBYT, V., & CORNELLE, O. (soumis). Be as Competent and Warm as I am: The Influence of Trait Relevance on Interpersonal Projection. *Journal of Experimental Social Psychology*.
- MARIQUE, G., & STINGLHAMBER, F. (2010). Relationship between organizational identification and affective commitment: The contribution of employees' identification to proximal targets. Manuscript under revision (*Journal of Personnel Psychology*).
- MARIQUE, G., STINGLHAMBER, F., & DESMETTE, D. (2011). Relationship between workgroup identification and organizational identification: The moderating role of perceived similarities between targets. Manuscript submitted for publication (Industrial Relations – Relations Industrielles).
- HANIN, D., STINGLHAMBER, F., & DELOBBE, N. (2011). The impact of employer branding on employees: The role of employment offering in the prediction of their affective commitment Manuscript submitted for publication to *Personnel Review*.
- ROPARS C., GLORIEUX D., MESLE R., PONTRANDOLFI P., TILQUIN J., (soumis en attente d'acceptation) Ptsd and osteopathy : a 3D focus on trauma.
- MATHIJSEN, F. (2011) Validation d'une Mesure de Modification Paradigmatique (MMP) chez des adolescents. *Revue Européenne de Psychologie Appliquée*, submitted.
- LEROY, V., DAYEZ, J.B., MIKOŁAJCZAK, M. & GRÉGOIRE, J. (en attente) La réévaluation cognitive : un outil efficace pour résister à la tentation? *Revue des sciences de l'éducation*.
- DOUILLIEZ, C., PHILIPPOT, P., HEEREN, A., LEFÈVRE, N., WATKINS, E., & BARNARD, P. (en révision). The Mini-CERTS (Cambridge-Exeter Repetitive Thought Scale): A Short Questionnaire to Assess Constructive and Unconstructive Repetitive Thinking. *Journal of personality Assessment*.
- DOUILLIEZ, C., PHILIPPOT, P., GILBOA-SCHECHTMAN, E., & YZERBYT, V. (en révision). Social anxiety biases the evaluation of facial displays: Evidence from single and multiple facial stimuli and from different evaluation dimensions. *Cognition and Emotion*.
- DORMAL V., & PESENTI, M. (submitted). Processing numerosity, length and duration in a three-dimensional Stroop-like task: towards a gradient of processing automaticity?
- BADETS, A., BOUQUET, C., & PESENTI, M. (submitted). Number-generation bias after movement perception.
- STIEVENART, M., ROSKAM, I., MEUNIER, J.-C., & VAN DE MOORTELE, G. (submitted). The stability of young children's attachment representations: The moderating effects of parenting, IQ and attachment-related life events.
- VAN DER STRATEN WAILLET, N., & ROSKAM, I. (2011). Religious discrimination in adolescence. Manuscript submitted for publication.
- DOUILLIEZ, C., PHILIPPOT, P., HEEREN, A., WATKINS, E., & BARNARD, P. (2011). The Mini-CERTS (Cambridge-Exeter Repetitive Thought Scale):A Short Questionnaire to Assess Constructive and Unconstructive Repetitive Thinking. Manuscript submitted for publication.
- DOUILLIEZ, C., PHILIPPOT, P., YZERBYT, V., GILBOA, E. (2011). Angry face search in Crowds in social anxiety. Manuscript submitted for publication.
- STINGLHAMBER, F., EISENBERGER, R., STEWART, R., & HANIN, D. (2011). The impact of personnel selection procedure on applicants' attitudes and intentions: The role of anticipated organizational support. Manuscript in preparation.

Appendix

MATHIJSSEN, F. (2011) Adolescents and paranormal experiences: coping and anxiety. *Journal for Personal and Individual Differences* (en préparation)

ROPARS C. (en préparation), Osteopathie, douleur et stress post-traumatique.

MASSON, N., PESENTI, M & DORMAL, V. (in preparation) Symbolic and Non-symbolic numerical magnitude comparisons in spatial neglect.

ILSM

RIACHI I., SCHWIENBACHER A. (submitted). Securitization of corporate assets and executive compensation. *The Quarterly Review of Economics and Finance*.

IREC

BAECK M, CHEMELLE JA, RASSE C, TERREUX R, GOOSSENS A. (2011) C16-methylated corticosteroids are less far allergenic than the non-methylated molecules. *Contact Dermatitis* **64** 305-312.

WANET M., ALDO LEE J., WEYNAND B., DE BAST M., PONCELET A., LACROIX V., COCHE E., GREGOIRE V., GEETS X. (2010) Gradient-based delineation of the primary GTV on FDG-PET in non-small cell lung cancer: a comparison with threshold-based approaches, CT and surgical specimens. *Radiotherapy and Oncology* **98**:1 117-125.

LECONTE I., ET AL. (2010) MRI of iron-oxide labelled transplanted hepatocytes in mice: effect of treatment with cyclophosphamide. *J Magn Reson Imaging*. **32** 367-375.

MARDJUADI, J. MEDIONI, J. KERGER, JL. CANON, L. DUCK, F. MUSUAMBA, S. OUDARD, M. CLAUSS, L. D'HONDRT A., MOXHON JP. AND MACHIELS F. (soumis) A phase I study of Sorafenib in association with Docetaxel-prednisone in chemo-naïve metastatic castration-resistant prostate cancer *Journal of Clinical Oncology (JCO)*

Baeck M, Soria A, Marot L, Theate I, Hendrickx E, Goossens A, Tennstedt D, Dachelet C, Jaeger J, Pilette C, Renaud JC, Rozières A, Nicolas JF, Dumoutier L. CD4+ T cells with a Th2 profile are rapidly recruited to cutaneous patch-test sites in delayed allergic hypersensitivity to corticosteroids. To submit to *Journal of Allergy and Clinical Immunology (JACI)*.

SCHMITZ S, KAMINSKY-FORRETT MC, HENRY S, ZANETTA S, GEOFFROIS L, COMPASS E, MOXHON A, MIHNION L, GUIGAY J, KNOOPS L, HAMOIR M, MACHELIS JP. (Soumission planifiée bientôt) Phase II study of figitumumab in patients with recurrent and/or metastatic squamous cell carcinoma of the head and neck: GORTEC 2008-02. *Journal of Clinical Oncology*.

DEFRÈRE, VAN LANGENDONCKT, DONNEZ AND AL. (en preparation) Evaluation of AINS in endometriosis development. *Human Reproduction*.

VOISIN C., BERNARD A. (en preparation) Interactions between domestic water hardness, swimming pool chlorine and atopy in the development of childhood eczema

Ions

HANSEEUW B., DRICOT L., KAVEC M., GRANDIN C., SERON X., IVANOIU A. Associative encoding deficits in amnestic mild cognitive impairment: a volumetric and functional MRI study (in press) *NeuroImage Journal*

ANDRÉ T., LÉVESQUE V., HAYWARD V., LEFÈVRE P. AND THONNARD J-L., (2011) "Effect of skin hydration on the dynamics of fingertip gripping contact." *Journal of the Royal Society Interface* In Press.

Individual differences in impulsivity predict anticipatory eye movements. (en preparation)

ELI

MEYFROIDT P, RUDEL TK, LAMBIN EF (2010) Forest transitions, trade and the global displacement of land use. *Proceedings of the National Academy of Sciences*, **107**(49), 20917–20922

NIEBERDING C, FISCHER K, SAASTAMOINEN M, ALLEN C, WALLIN E, HEDENSTRÖM E, BRAKEFIELD PM (submitted to *Current Biology*) The scent of ageing.

R.A. WESSELINGH, (en preparation) Timing of flowering in the annual hemiparasite Rhinanthus angustifolius: the relative importance of life history traits and host attachment. *Journal of Ecology*

R.A. WESSELINGH & R.A. DECLERCK-FLOATE (en preparation). The effects of biological control on plant life history: is

Appendix

there an effect of weevil introduction on threshold size in Canadian populations of *Cynoglossum officinale*?

ISV

SALAMANCA AVILA M.E., VANDER BORGHT C. (2010) LOS MAPAS CONCEPTUALES COMO INSTRUMENTO DE IDENTIFICACION DE LA EVOLUCIÓN DE REPRESENTACIONES DEL CONOCIMIENTO EN ECOLOGIA. Proceedings of fourth international conference on concept mapping.

L. RIBONNET, A. CALLEBAUT, I. NOBELS, M.-L. SCIPPO, Y.-J. SCHNEIDER, S. DE SAEGER, L. PUSSEMIER AND Y. LARONDELLE, 2011. Modulation of CYP1A1 activity by a Ginkgo biloba extract in the human intestinal Caco-2 cells. *Toxicology Letters* **202**: 193-202.

SALAMANCA AVILA M.E., VANDER BORGHT C. (soumis) EXPLORACIÓN DE LA REPRESENTACIÓN SOCIAL DE LOS CONCEPTOS CIENTÍFICOS DE LA ECOLOGÍA A PARTIR DE LOS MAPAS CONCEPTUALES. *Enseñanza de las ciencias*

SALAMANCA AVILA M.E., VANDER BORGHT C . (à soumettre) EXPLORACIÓN DE LA REPRESENTACIÓN DE LOS CONCEPTOS CIENTÍFICOS DE LA ECOLOGÍA. ESTUDIO DE CASO. *Didactique des sciences*.

DANG VAN Q.C., FOCANT M., MIGNOLET E., TURU C., FROIDMONT E. AND LARONDELLE Y. (publication en 2011) Influence of the diet structure on ruminal biohydrogenation and milk fatty acid composition of cows fed extruded linseed. *Animal Feed Science and Technology*

VANDEN BERGHE (M.), WEIJS L., HABRAN S., DAS K., POMEROY P., COVACI A. AND DEBIER C. Maternal transfer of polychlorinated biphenyls, polybrominated diphenyl ethers and organochlorine pesticides in grey seals (*Halichoerus grypus*)

VANDEN BERGHE M., WEIJS L., HABRAN S., DAS K., POMEROY P., COVACI A. AND DEBIER C Effects of polybrominated diphenyl ethers (PBDEs), polychlorinated biphenyls (PCBs) and organochlorine pesticides on vitamin A levels in lactating grey seals.

IMMAQ

MITCHELL R., DUJARDIN C., POPHAM F., FARFAN-PORTET M.I., THOMAS I., LORANT V. (2010) Making an international comparison using matched areas. Can context and composition be separated ? (in revision for *Social Science and Medicine*).

DUJARDIN C., MITCHELL R., POPHAM F., FARFAN-PORTET M.I., THOMAS I., LORANT V. (2010) Does country influence the health burden of informal care ? A comparison between Belgium and Great Britain (in revision for *Social Science and Medicine*).

VANDENBULCKE, G., THOMAS, I., DE GEUS, B., MEEUSEN, R., INT PANIS, L. The risk of accident for cyclists in Brussels (Belgium) – New insights from research in epidemiology and ecology? On-going paper.

VANDENBULCKE, G., THOMAS, I., DE GEUS, B., DEGRAEUWE, B., MEEUSEN, R., INT PANIS, L. Unreported and reported accidents for cyclists: do they occur at different places? The case of Brussels (Belgium). On-going paper.

DUJARDIN C., THOMAS I., LORANT V. Does the built environment influence the health of the elderly in Brussels: the impact of hilliness, sidewalks and green spaces (in preparation).

JONES J., PEETERS D. ET THOMAS I.. (en preparation) "Does functional delineation of cities influence land price determinants ? A case study"

Reports

ELI

POLLUSOL 2 : Rapport final de la convention A. Volet "sols" (autres que potagers) : détermination des teneurs habituelles en ETM et polluants organiques dans trois secteurs touchés par la pollution [...] - B. Pereira, A. Schneider, H. Titeux et Ph. Sonnet, 2010. Projet

Rapport de l'épreuve de confirmation, Julie VAN DAMME, UCL, mai 2010 2. Rapport d'activité première bourse - Julie VAN DAMME, FRIA, août 2010

Thesis confirmation report (FSR grant) – Pennekamp F., supervision by Nicolas Schtickzelle

Appendix

ISV

Food interactions : effects on health, consumer perception and impact on agro-food industries (FOODINTER-SD/AF/04) - Authors: M.L. Scippo, R. Blust, D. Boniver, F. Brose, F. Callebaut, A. Covaci, B. Dannevoye, S. Danyi, S. De Saeger, S. De Voghel, J. Diana

IMMAQ

Systematic analysis of Health risks and physical Activity associated with cy - Int Panis, L., Meeusen, R., Thomas, I., Aertsen, J., de Geus, B., Degraeuwe, B., Frère, J., Torfs, R., Vandenbulcke-Plasschaert, G., Willems, H., Jacobs, L., Nawrot, T. (2011).

Presentations / posters

IPSY

COURTOIS M., DELROISSE S., HERMAN G. (2011) *Diversity management and prejudice: which mediators matter?* BAPS, Gent, 27 mai 2011

TOMA, C., YZERBYT, V., & CORNEILLE, O. (2011). *If you are my partner, you must be like me: Beliefs about cooperation underlie social projection.* Poster presented at SPSP Conference, San Antonio, Texas, Janvier 2011.

TOMA, C., YZERBYT, V., & CORNEILLE O. (2010). *Similar when We Cooperate? Interdependence Effects on Social Projection.* Poster presented at The 11th Annual Meeting of the Society for Personality and Social Psychology, Las Vegas, US.

TOMA, C., CORNEILLE, O., & YZERBYT, V. (2009). *He/She is like me if we cooperate. The impact of self-other interdependence on social projection.* The First Conference of Social Psychology in Ireland, Limerick, Ireland.

TOMA, C., YZERBYT, V., & CORNEILLE O. (2009). *Alike and Successful: Interdependence Effects on Projective Judgments.* The 11th Transfer of Knowledge Conference of European Social Cognition Network, Warsaw, Poland.

Toma, C., Corneille, O., & Yzerbyt, V. (2008). *He/She is like me if we cooperate. But why?* The 10th Transfer of Knowledge Conference of Europe

GILLIS, C., HANIN, D., & STINGLHAMBER, F. (2011, May). *The impact of perceived organizational support and its antecedents on psychological contract.* Poster that will be presented at the 15th European Congress of Work and Organizational Psychology, Maastricht, The Netherlands.

MARIQUE, G., & STINGLHAMBER, F. (2010, Juillet). *Impact de l'identification au travail des employés sur leur implication organisationnelle : une perspective multiballes.* Communication présentée lors du 16ème congrès de psychologie du travail et des organisations de l'Association Internationale de Psychologie du Travail de Langue Française (AIPTLF), Lille, France.

MARIQUE, G., STINGLHAMBER, F., HANSEZ, I., & BERTRAND, F. (2011, May). *Organizational identification and affective commitment: An integrative approach.* Poster that will be presented at the 15th European Congress of Work and Organizational Psychology, Maastricht, The Netherlands.

VAN SCHENDEL, C. & REGAERT, C. (2010). *Troubles du comportement et difficultés de langage.., Journée scientifique H2M, Louvain-la-Neuve, 17.09.2010.*

VAN SCHENDEL, C., SCHELSTRAETE, M.-A., ROSKAM, I. (2010). *Language among young children displaying externalizing behaviour: a cluster analytic approach.* 6th International Conference on Language Acquisition (CIAL 2010, Barcelone, 7-10/09/2010).

SCHELSTRAETE, M.-A. & VAN SCHENDEL, C. (2011) *Diversité des profils langagiers de jeunes enfants présentant des troubles externalisés du comportement. IPSY day Louvain la Neuve, 01.06.2011.*

MASSON, N., PESENTI, M & DORMAL, V. (2011). *Numerical and temporal magnitude comparisons in spatial neglect.* Annual meeting of the Belgian Association for Psychological Science BAPS, Ghent, 27 may 2011

CUCHE & GREGOIRE (2011). *Haut potentiel, performance scolaire et motivation : qu'est-ce qui importe vraiment ? Enfances : Valoriser tous les Potentiels, 6-7-8juillet 2011 Lyon*

Appendix

JUR-I

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ELI

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L. Ribonnet, A. Callebaut, I. Nobels, M.-L. Scippo, Y.-J. Schneider, S. De Saeger, L. Pussemier and Y. Larondelle. Modulation of CYP1A1 activity by a Ginkgo biloba extract in the human intestinal Caco-2 cells. BNS annual meeting, Brussels, 29 April 2011

IMMAQ

Vandenbulcke, G., Thomas, I. *Modelling the risk of having a bicycle accident in Brussels: a Bayesian approach. BIVEC-GIBET Transport Research Day 2011, Namur (Belgium), 25/5/2011.*

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Appendix

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DUJARDIN C., THOMAS I., LORANT V. Does the built environment influence the health of the elderly in Brussels? Submitted to the 17th European Colloquium on Quantitative and Theoretical Geography, Athens, 2-5 September 2011

Projects

IACCHOS

Projet européen ERASMUS « Hy-SUP », porté par les universités Lyon 1 (coordination) et Rennes 2 (France), de Louvain-la-Neuve (Belgique), du Luxembourg, de Genève et Fribourg (Suisse)- Marcel Lebrun, Françoise Docq, Caroline Letor

REF: leadership pédagogique et cadrage des actions pédagogiques dans l'enseignement supérieur - Michèle Garant et Caroline Letor

IPSY

Analyses de résultats de deux études sur les biais d'interprétation des expressions faciales dans l'anxiété sociale. Chercheurs impliqués: Morgane Vanhaelen, Pierre Philippot et Vincent Yzerbyt.

Cognitive difficulties related to negative emotions + autres personnes de l'ARC "Affect, Decision-making and Social Regulation" - Raffaella Di Schiena

Thème de la recherche: étudier l'influence de langage et système pédagogie sur l'apprentissage nombre naturel et décimal. Une étude comparative entre Belgique et Vietnam – Nguyen Hien

Estudio de comportamientos sexuales y de situaciones de violencia de género en la Facultad de medicina - Viola, Francisco

Etude du développement de l'acuité numérique au travers de la fraction de Weber auprès d'enfants de maternelle et de primaire et d'enfants atteints de syndromes génétiques connus pour être associés à des difficultés d'apprentissage en mathématique. Chercheurs

impliqués : Marie-Pascale Noël, Alain Guillet, Nathalie Lefèvre

Essai de theoristation de l'action psychique de la technique osteopathique fonctionnelle en vue de contribuer à la compréhension du traumatisme du point de vue psychosomatique – Ropars Chantal

INCAL

Projet PAI - "Justice and Society: The Sociopolitical History of Justice Administration in Belgium (1795-2005)" avec, entre autres : Aurore François, Jonas Campion, Xavier Rousseaux, Margo De Koster, ainsi que plusieurs chercheurs issus d'un partenariat rassemblant plusieurs universités belges et étrangère, ainsi que des établissements scientifiques fédéraux (cf. www.just-his.be).

JUR-I

Thèse en criminologie sur le thème de la libération conditionnelle - T. Slingeneyer

ILSM

Ranking Indicators Evaluation : Tobin's q Regression on the Scores Associated to Patents Recherche en collaboration avec ECARES

IREC

Utilisation du magnésium (safety) chez des patients souffrant d'hémorragie sous- arachnoïdienne – Castanare Diego

Projet FNRS 1.1.636.10F - Thérapies moléculaires ciblées comme agents de radiosensibilisation dans les tumeurs du rectum : études de mécanismes moléculaires impliqués en vue d'optimiser les combinaisons thérapeutiques – Chercheur : Feby Mardjuadi

Mesure d'agrément IRM-échographie pour les volumétries hépatiques - Promoteur Danse E, Assistant Radiologue Lebecque O - Département de Radiologie.

Mesure de performance des paramètres de perfusion (IRM) pour la différentiation glioblastome-métabstase - Promoteur Cosnard G, Assistant Radiologue Mouthuy N - Département de Radiologie

Appendix

IRSS

Impacts de la forfaitarisation des médicaments en milieu hospitalier - Yolande de la Kethulle

ELI

"Caractérisation de la diversité génétique de trois races ovines locales pour la mise en place d'une cryobanque en Wallonie" Chercheur : Jean-François Dumasy Promoteurs : Prof. Isabelle Donnay et Prof. Philippe Baret

Projet POLLUSOL 2 – projet commandé par la SPAQUE et réalisé par les universités de Liège Ulg (Aquapôle et Gembloux Agro Bio Tech) et de Mons (FPMs), sous la coordination de l'Université catholique de Louvain (UCL) et par la SPAQuE - B. Pereira, A. Schneider, H. Titeux et Ph. Sonnet.

Comparaison de divers traitements de paillage sur la croissance d'arbres. Institut de Développement Forestier (France).

ISV

« Etude de la fonction physiologique de la compétence naturelle chez streptococcus thermophilus" - Laetitia Fontaine, Damien Dandoy, Pascal Hols

Quality Survey : List of comments

The following list contains the full text comments obtained from the quality survey of Summer 2011 (in French). The section begins with positive comments followed by remarks which may point to improvement opportunities. The section ends with a list of corrective actions which will be taken in response to the remarks.

Positive Comments

Absence de remarques

aucun, j'ai trouvé ça super

Je n'en vois pas pour l'instant

Pour ma part, j'ai fait les informations intéressantes pour ma thèse les deux années passées, je connais les autres formations et je sais comment m'y prendre si un jour j'en ai besoin. Il n'y a rien à changer pour moi

Pour cette expérience, rien. Les analyses proposées nous ont permis d'améliorer significativement le papier et de le faire accepter.

Aspects positifs

La disponibilité et les compétences des interlocuteurs

La rapidité et l'efficacité du traitement de la demande

Je suis contente d'avoir reçu l'aide du groupe SMCS, toujours opportune et rapide

L'aide de Nathalie Lefèvre et ses explications claires à la fois lors des cours donnés mais également lors de consultation pour l'analyse de résultats

La disponibilité et l'écoute du personnel, les moyens matériels à disposition

Le côté pratique de la formation. Elle a permis de mettre en avant différentes situations où le programme R pouvait être utilisé.

Clarté des formations, disponibilité

Accessibilité de ces membres!

La disponibilité de Nathalie Lefèvre

Accueil, disponibilité, compétence

Formations de logiciels statistiques excessivement intéressant

Tout ce qui a trait à l'exploitation du langage R

La pédagogie utilisée par les professeurs explication théorique + aspect technique (utilisation du logiciel)

La personne-ressource est un véritable expert dans le domaine d'intérêt

Les compétences du SMCS au niveau des connaissances en statistique

Convivialité

Disponibilité et maîtrise

Disponibilité à tout moment ; serveur rapide

Formation à un logiciel (SPSS) et conseil statistique: efficacité, haute qualité didactique

Appendix

La capacité des formateurs à se mettre au niveau des participants, non statisticiens, leur clarté, disponibilité...

La mise à disposition d'outils informatiques (logiciels, documentation) -le fait que votre cellule s'adresse également aux "débutants" -la disponibilité des formateurs pour répondre aux questions qui surviennent pdt et après la formation

Conseil pour une question précise en statistique
Formations bien organisées et supports (slides) clairs et agréables

Les cours ont bien répondu les besoins de recherche (spss, R) -la façon donnée de cours est simple; elle est s'adapté bien avec les gens "amateur" avec maths et stats

L'efficacité du programme - le dévouement des enseignantes

Les formations : les formateurs sont très compétents

Disponibilité

J'ai beaucoup apprécié les conseils méthodologiques

Rapidité, efficacité

Disponibilité, qualité et clarté du conseil

Formations pertinentes et gratuites. qui se déroulent à des périodes où il n'y a pas cours... pour les profs c'est super.

La compétence des formateurs, leur disponibilité et le sens du service des personnes qui m'ont aidé: Mr Bernard Masuy et Mme Lorise Moreau

L'efficacité du service, les capacités de l'Assistant et sa disponibilité

Disponibilité et implication. Réponses adaptées à la question ET à celui qui les pose

Convivialité et disponibilité

Convivialité et qualité des séances, ainsi que des notes de cours

La disponibilité par email

Service rendu préféré : les consultances

La capacité à avoir une vue d'ensemble sur le meilleur modèle statistique à appliquer. La capacité à invalider des données ambiguës, la capacité à m'aider dans une phase difficile de la reproduction de certains calculs

La disponibilité, la qualité et l'aide personnalisée de qualité fournie par le service conseil. Ce service est plus que nécessaire dans un centre de recherche comme le notre!

Ce que j'ai préféré : l'aspect "exercices pratiques" à faire sur ordinateur directement

La rapidité

Conseils personnalisés

Conseils, disponibilité, l'équipe est prête à faire le déplacement pour me rencontrer, ouverture à des collaborations

La rapidité de la prise en charge le souci d'une compréhension globale (et non uniquement statistique) des données analysées les supports pour les formations

Rapidité et qualité des réponses

Disponibilité, résolution de problèmes

Le fait de pouvoir aller chez un consultant pour poser une question précise, le fait que les slides soient disponibles sur le site internet (car on ne sait souvent pas à l'avance de quelle formation on aura besoin... et donc on ne les suit pas toutes)

Le professionnalisme, la disponibilité, l'intérêt pour l'étude.

La disponibilité

Ecoute des formateurs

La disponibilité des personnes, et la qualité de l'ajustement des conseils aux besoins spécifiques de recherche.

La qualité du contact

Les formations

ENCOURAGEMENTS / REMERCIEMENTS

Je remercie l'aide que vous m'aviez accordée et tout spécialement à Mathieu Pigeon, qui a été disponible

Appendix

pour trouver des solutions, pour m'expliquer le logiciel R, pour répondre à mes questions, pour recevoir mes appels et donner information supplémentaire. Toujours avec patiente et grande sympathie. Merci

Je soutiens à 100% votre service. Il est vraiment essentiel pour soutenir la recherche!

Merci

C'était vraiment indispensable à la bonne réalisation de mon travail de publication. J'avais cherché par ailleurs à m'en sortir seule avec des aides extérieures. C'est juste impossible! Donc il faut vraiment continuer, c'est indispensable! Un immense merci à Jonathan Tilquin et Nathalie Lefèvre

Bravo, continuez ainsi! É.L.B

Merci

Remarks and Suggestions

FORMATIONS

La vitesse de l'exposé. Parfois trop rapide, parfois trop lente. Les orateurs connaissant parfaitement le programme oubliait parfois que l'on était des novices dans le langage de programmation.

Les supports papiers (notes de cours)

Plus de formations avancées sur les statistiques multivariées en utilisant le langage R

L'analyse des outputs validation des modèles

Présentation plus détaillé du contenu lors de l'annonce de la formation

Présentation trop elliptique. Il aurait été utile de présenter la logique du logiciel.

Développer à la fois l'aspect "outil informatique" et "théorie sous-jacente". Même si, a priori, ce n'est pas l'objectif de vos formations, un petit rappel théorique n'est jamais de trop...le temps des cours sont plus long. - Varier les données et exemples pour que ils sont utiles pour les chercheurs qui viennent de plusieurs domaines

Plus approfondi si la durée de chaque cours permet

C'est toujours difficile d'enseigner la statistique, les logiciels... dans beaucoup de domaines de recherche, des chercheurs doivent effectuer des analyses, alors qu'ils ne sont pas forcément statisticiens à la base. C'est pourquoi la SMCS est vraiment une excellente ressource pour les chercheurs. Mais dans la formation que j'ai suivie, il y avait des moments où les enseignants ont « perdu » en quelque sorte les étudiants... Il faut vraiment tout planifier, vérifier que le code marche avant de commencer le cours, etc... Mais cela dit, je suis très content de la formation que j'ai eue

Intervention de personnes de terrain qui utilisent tel ou tel logiciel de façon concrète en situation d'enquête avec ces aléas et les astuces ... (par ex. Limesurvey et les jeunes: mieux vaut les mettre dans une salle d'informatique que d'attendre des réponses libres ...)

Des formations en horaires décalés?

Le cours que j'ai suivi était donné pendant la session d'exams, je n'ai donc pas toujours pu assister. Il serait plus pratique d'avoir des cours pendant la période de blocus ou les autres périodes sans cours ou exams

Parfois, on a l'impression de survoler le logiciel et ses fonctionnalités (ou d'aller trop vite)...mais c'est en pratiquant souvent et beaucoup un logiciel qu'on le maîtrise davantage...

L'accessibilité à la documentation liée au produit et proposer un temps de démonstration interactive

Se donne seulement à LLN et pas à Woluwe

Peut-être une information pour les nouveaux doctorants, d'environ deux heures, pour leur dire "si vous faites ce genre de design, vous aurez besoin de ce genre de logiciel, donc on vous conseille de faire cette formation-ci avant de vous lancer dans une étude au risque de mal récolter les données..."

Concernant la formation HLM: la durée de la formation était, selon moi, trop courte, pour intégrer à la fois la logique d'analyse et l'utilisation du logiciel

CONSULTANCES

Peut-être un appel téléphonique pourrait être nécessaire dès fois

Appendix

L'anticipation de la fin de l'aide - la flexibilité horaire quand on vient de l'étranger

Je n'ai trouvé aucun document qui explique comment utiliser SAS sur le serveur. J'ai dû demander à des collègues de me coacher... pour éviter de déranger les autres, ce serait pratique d'avoir une note d'utilisation

Assortir les conseils statistiques de références bibliographiques (souvent demandées par les reviewers)

FONCTIONNEMENT DU SMCS

Une plus grande "publicité" des services SMCS pourrait être utile à une grande majorité des chercheurs UCL

Le SMCS n'est pas assez connu dans le secteur où je travaille. Ce service/structure pourrait bénéficier d'une promotion plus visible

Faire plus de publicité pour votre service car beaucoup de professeurs, chercheurs et assistants ne savent pas qu'ils peuvent bénéficier d'un support technique et méthodologique dans leur recherche.

Il me semble que l'interdisciplinarité à base de la formation statistique peut être un atout pour le groupe. Je veux dire, avoir de biologistes-statisticiens, psychologues-stat, historiens-stat... J'ai du, par exemple, chercher un psychologue-stat "externe" pour pouvoir avancer avec mes données, car d'après les résultats des premières explorations statistiques je ne pouvais faire « grande chose voir, rien du tout» alors qu'il s'agissait de réfléchir à des options.

Les modalités de contact des différents statisticiens (qui contacter pour quoi dans quels instituts sur quels types de questions...)

Pas de réel problème, excepté qu'un petit malentendu dans la communication a retardé la prise de rendez-vous

Idéalement, la rapidité

La mise en place d'un forum où il serait possible de poser une question (méthodologique ou autre) à l'ensemble de la communauté; et profiter ainsi d'un plus grand champ d'expertise.