

DATAETHICS PILOT SCHOOL

Ethical considerations in interpretation and handling of BIOMEDICAL BIG DATA

PROGRAMME

Time (CET)	MON, 12 April	TUE, 13 April	WED, 14 April	THU, 15 April	FRI, 16 April
	Day 1	Day 2	Day 3	Day 4	Day 5
9:00 AM	08:15 Login 09:00-09:40 Welcome	09:00-10:00 S4. Development of data science and machine learning approaches for the analysis of large-scale biomedical data. <i>Karim Lekadi, University of Barcelona</i>	09:00-10:00 S7. Ethical aspects of consent to data research by patients/participants: informed, broad, dynamic consent <i>Prof. Silke Schickelz/ Larina Buhr, University Medical Center Göttingen</i>	09:00-09:30 S10. Additional/incidental findings in data mining and analysis. Ethical issues <i>Prof. Gerrit Heijgeson, Karolinska Institutet</i>	09:00-10:20 Group working sessions on presentations on selected case study
	09:50-10:00 Break	Discussion (30 minutes)	Discussion (30 minutes)	09:30-10:00 Break	
10:00 AM	10:00-11:00 S1. Bioinformatical evaluation of genomic data <i>Prof. Zoltan Tuzi, Head of Institute of Bioinformatics, Medical University of Innsbruck</i>	10:00-10:20 Break	10:00-10:20 Break	10:00-11:00 S11 10:00-10:20 Statistical significance in a controlled data world - a jurist' perspective <i>Dr. Francis Mejerlin, University of Strasbourg</i>	10:20-11:20 S12. An Introduction to Data Ethics and Data Protection Legislation in Health Research & Biobanking <i>Dr. Blainad Mee, Trinity College Dublin</i>
	Discussion (30 minutes)	10:20-11:20 S5. Statistical modelling approaches. The scope and limits of (deep) distributional regression approaches. <i>Alexander Silbersdorff, University of Göttingen</i>	10:20-11:20 S8. Changing views on data, body, disease information in biomedical science and its ethical implications <i>Prof. Gabriele Werner-Felmayer, Medical University of Innsbruck</i>	10:20-10:40 Statistical significance in a big data world <i>Dr. Julien Godet, University of Strasbourg</i>	Discussion (20 minutes)
	11:00-11:20 Break	Discussion (30 minutes)	Discussion (30 minutes)	11:00-11:20 Break	Discussion (30 minutes)
11:00 AM	11:20-12:20 S2. High-throughput data analysis and interpretation. Analysis of large heterogeneous high-throughput datasets <i>Prof. Tim Beißbarth, Head of Department Medical Bioinformatics, University Medical Center Göttingen</i>	11:20-11:40 Break	11:20-1:40pm Lunch break & group working sessions on presentations on selected case study	11:20-1pm Group working session on presentation on selected case study	11:20-11:40 Break
	Discussion (30 minutes)	11:40-12:40 S6. Social categories and biases in big data approaches <i>Ass.-Prof. Mirjam Pot, BA MSc MA, University of Vienna</i>			11:40-12:40 S13. Big data in health research. Legal aspect <i>Dr. Laszlo Benze, Semmelweis University</i>
12:00 PM	12:20-1:20pm Lunch break	Discussion (30 minutes)			Discussion (30 minutes)
		12:40-1:40pm Lunch break			12:40-1:40pm Lunch break
1PM	1:20-2:20pm S3. Mobile data collection platforms and "wearables": automated data processing and display; natural language processing/sentiment analysis; decision modeling; Bayesian statistics; administrative data analysis; and patient reported outcomes <i>Dr. Thanasis Tsanas</i>	1:40-3:00pm Group exercise: <i>Biases and justice: What are just ways to deal with big data biases?</i> <i>Moderated by Ass.-Prof. Mirjam Pot, BA MSc MA, University of Vienna</i>	1:40-3:00pm S9. Ethics of Learning Healthcare Systems (focused on big data systems) Introduction to group exercise: <i>Laurijssen MSc, S.J.M., Leiden University Medical Center</i>	1:2pm Lunch break and filming of video testimonials	1:40-4:40pm Group presentations on selected case study. Feedback and evaluation by the Jury
	Discussion (30 minutes)		Group exercise <i>Moderated by Laurijssen MSc, S.J.M., Leiden University Medical Center with the assistance of AVoKE</i>	From 2pm Group working sessions on presentations on the selected case study	
2PM	2:20-2:40pm Break				
	2:40-4pm VAKE education introduction for students and trainers <i>Prof. Jean-Luc Patry and Prof. Sieglinde Weyringer, AVoKE</i>				
3PM					
4pm					4:40-5:00 Break
5pm					5-5:30pm Presentation of the award. Concluding remarks. Survey - evaluation

MODERATORS

Monday & Thursday: Prof. Christoph Schwarzer, Medical University of Innsbruck, AUSTRIA

Tuesday & Wednesday: Prof. Gabriele Werner-Felmayer, Medical University of Innsbruck, AUSTRIA

Friday: Prof. Anne Krogsdam, Medical University of Innsbruck, AUSTRIA