

# CLINICAL AND GENETIC EPIDEMIOLOGY

## WINTER SCHOOL 2017

### COURSE PARTICIPANTS

TABLEA BRICK

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#### *OCCUPATION*

Research Associate / Doctoral Candidate

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#### *EMPLOYER//STUDY PROGRAM*

Klinikum der Universität München  
Dr. von Haunersche Kinderklinik  
Arbeitsgruppe Prof. Erika von Mutius

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#### *EDUCATION BACKGROUND*

Master in Public Health

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#### *RESEARCH INTEREST*

Asthma and allergy in children, farm effect, omic data

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#### *MOTIVATION TO TAKE THE COURSE*

I hope to get new insight in understanding, analysis and interpretation of "Omic"-data, which would be very helpful for my PhD. Also the ethical and economic aspects of clinical trials sound very interesting and might be helpful for future research.

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#### *CONTACT*

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JOZEFINA CASUSCELLI

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*OCCUPATION*

Medical Doctor

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*EMPLOYER//STUDY PROGRAM*

LMU Klinikum

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*EDUCATION BACKGROUND*

Medicine

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*RESEARCH INTEREST*

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*MOTIVATION TO TAKE THE COURSE*

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*CONTACT*

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## CHOI WAI MAGGIE CHAK

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### *OCCUPATION*

Master Student

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### *EMPLOYER/STUDY PROGRAM*

MSc in Epidemiology, LMU

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### *EDUCATION BACKGROUND*

Bachelor in Public Health Sciences (Specializations: Health Services and Health Promotion)

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### *RESEARCH INTEREST*

Preventive measures of chronic diseases & control of infectious diseases

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### *MOTIVATION TO TAKE THE COURSE*

I am really interested in clinical and genetic epidemiology. I have been a master intern at META group of Helmholtz Zentrum and will be writing a thesis related to personalized medicine for complex diseases e.g. metabolic syndrome.

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### *CONTACT*

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## MASHA DAVIDOVIC

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### *OCCUPATION*

Master Student

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### *EMPLOYER/STUDY PROGRAM*

Master in Health Sciences at Erasmus MC, Rotterdam, specialization Epidemiology

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### *EDUCATION BACKGROUND*

Graduated on Faculty of medicine, University of Belgrade, Serbia

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### *RESEARCH INTEREST*

From January I am starting to work on my master thesis with focus on modelling analysis comparing DALY averted QALY gained from breast cancer screening project. We want to measure QALY and DALY for patients with breast cancer using microsimulation model. The research work is a part of EU-TOPIA project, which has the aims to improve health outcomes and equity of cancer screening programmes and to develop innovative dedicated microsimulation models of the natural history of the cancers for the evaluation of screening, tailored specifically to the different countries in Europe. I am really interested in cancer screening programmes, and other preventive programmes for reducing the cancer morbidity and mortality.

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### *MOTIVATION TO TAKE THE COURSE*

I am highly motivated to participate in this specific winter school, because it will touch theoretically different topics related to cancer, cancer genomics and cancer predictors. I strongly believe that knowledge from this course will help me to briefly understand the pathogenesis of cancer and risk factors that will enrich my experience and gain skills which I will use for my master thesis. Also, LMU has partnership with Erasmus MC through the ERAWEB programme, and bilateral collaboration can strength the relationship among these two universities and establish a network of master students whose can cooperate in the future work.

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### *CONTACT*

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## HAO FENG

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### *OCCUPATION*

PhD Candidate, MMRS

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### *EMPLOYER/STUDY PROGRAM*

LMU Klinikum/Surgical Oncology. Liver resident innate immune-cells in colorectal liver metastasis

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### *EDUCATION BACKGROUND*

Medicine/ Master in surgical oncology/Residency in digestive surgery

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### *RESEARCH INTEREST*

Clinical trials /Immunology/Cancer biology/biobanking/databank

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### *MOTIVATION TO TAKE THE COURSE*

NGS data analysis and personalized medicine are not only a popular topic but also relevant to translational research and daily clinical practice.

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### *CONTACT*

surgeonfeng@live.com (private)

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**DR ZISHAN GAO**

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*OCCUPATION*

visiting scientist at Research Unit Molecular Epidemiology(AME)

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*EMPLOYER/STUDY PROGRAM*

Helmholtz Zentrum München

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*EDUCATION BACKGROUND*

Systems Biology and Acupuncture

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*RESEARCH INTEREST*

Genetic Epidemiology and system biology, acupuncture and Chinese medicine

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*MOTIVATION TO TAKE THE COURSE*

Willing to learn more about genetic epidemiology

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*CONTACT*

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JULIA GERKE

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*CONTACT*

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THOMAS HEISSE

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*OCCUPATION*

Manager, Pricing and Market Access Department

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*EMPLOYER/STUDY PROGRAM*

AstraZeneca GmbH

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*EDUCATION BACKGROUND*

MSc in Epidemiology

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*RESEARCH INTEREST*

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*MOTIVATION TO TAKE THE COURSE*

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*CONTACT*

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## VALENTINA KLAUS

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### *OCCUPATION*

PhD Students

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### *EMPLOYER/STUDY PROGRAM*

Helmholtz Zentrum München, Helmholtz Graduate School Environmental Health (HELENA)

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### *EDUCATION BACKGROUND*

MSc in Bioinformatics

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### *RESEARCH INTEREST*

After completing the Bioinformatics Master at LMU and TUM in 2014, I work as a research assistant in the Computational Discovery Research Unit at the Institute for Diabetes and Obesity at the Helmholtz Center Munich. Under the supervision of Matthias Tschoep and Dominik Lutter I am focusing on the Analysis of RNA-Seq data from Ribosomal Profiling and Phosphorylated Ribosome Capture. The main part of my doctoral project consists of analysing RNA sequencing data, subsequent data integration and detection of druggable targets.

Therefore, the topics covered by this course will contribute significantly to my project and will enhance my research outcome.

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### *MOTIVATION TO TAKE THE COURSE*

I am especially interested in approaches others use to integrate data and which data is reasonable to be integrated. I am also eager to deepen my understanding of the statistical handling of high-dimensional data, which I need on an everyday basis.

I work in an environment, with high pressure on finding therapeutic targets to prevent or treat diabetes, a complex disease of high importance, such as cancer. Thus, I would like to know how clinical studies are carried out and how research findings can actually be translated to medicine.

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### *CONTACT*

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## EDITH KONSEK

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### *OCCUPATION*

Master Student

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### *EMPLOYER/STUDY PROGRAM*

Msc in Statistics, TU Dortmund

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### *EDUCATION BACKGROUND*

Bachelor/Diploma - Dentist

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### *RESEARCH INTEREST*

Epidemiology and statistics

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### *MOTIVATION TO TAKE THE COURSE*

My motivation is to gain a deeper insight into Genetic Epidemiology for preparation of master thesis.

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### *CONTACT*

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## DR LUCIA MARIA LOTREAN

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### *OCCUPATION*

Associate professor at Department of Community Medicine

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### *EMPLOYER/STUDY PROGRAM*

Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

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### *EDUCATION BACKGROUND*

PhD/MD Medicine

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### *RESEARCH INTEREST*

- Cancer Prevention and Control
  - Cardio-vascular diseases Prevention and Control
  - Health Promotion across the lifespan
  - Global health
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### *MOTIVATION TO TAKE THE COURSE*

I am a medical doctor working at Department of Community Medicine from Iuliu Hatieganu University of Medicine and Pharmacy. I am involved in teaching, research and health promotion activity in the field of Preventive Medicine and Community Medicine.

Participation to this course will help me to increase my skills in the field of clinical and genetic epidemiology, with impact on my future research and teaching activities.

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### *CONTACT*

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## SUSANNE MÜLLER-ROMPA

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### *OCCUPATION*

Research Associate / Doctoral Candidate

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### *EMPLOYER/STUDY PROGRAM*

Klinikum der Universität München  
Dr. von Haunersche Kinderklinik  
Arbeitsgruppe Prof. Erika von Mutius

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### *EDUCATION BACKGROUND*

B. Sc. Biology, Master of Public Health

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### *RESEARCH INTEREST*

Asthma/atopic diseases and environmental exposures, including farming environments. Omic data/big data

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### *MOTIVATION TO TAKE THE COURSE*

I have to analyse very complex data of population based studies in the context of farming; for example omic-data, genetic data, gene expressions, zero-inflated (lab-) data. I hope to gain deeper insight into the various methods to handle and analyse those types of data. Interpretation of the results in the context of transfer to the clinic or public health issues is in the focus. One of our goals is to combine multiple data types for a more comprehensive analysis.

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### *CONTACT*

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## DR PATRICIA MUSOLINO

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### *OCCUPATION*

Physician Scientist (Critical Care and Vascular Neurologist and  
Neurogenetics Translational Lab)

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### *EMPLOYER/STUDY PROGRAM*

Massachusetts General Hospital/Harvard Medical School

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### *EDUCATION BACKGROUND*

PhD/MD Neurosciences

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### *RESEARCH INTEREST*

Impact of single genes upon vascular biology and gene therapy. Mono and multigenetic disorders causing stroke, inflammation and vascular malformation.

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### *MOTIVATION TO TAKE THE COURSE*

Learn more about applied biostatistics, genetic epidemiology and approaches to large datasets as part of my career development program sponsored by the National Institute of Health NINDS K08 Award

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### *CONTACT*

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KATHARINA SCHREMSER

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*OCCUPATION*

Doctoral Student

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*EMPLOYER/STUDY PROGRAM*

Helmholtz Zentrum München, IGM

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*EDUCATION BACKGROUND*

Master in Public Health, Bachelor of Science in Health Economics

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*RESEARCH INTEREST*

Type 2 Diabetes, Health Economic Modelling, Secondary Data

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*MOTIVATION TO TAKE THE COURSE*

Deeper knowledge in genetic epidemiology and personalized medicine

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*CONTACT*

katharina.schremser@helmholtz-muenchen.de

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## JYOTSNA SRINATH

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### *OCCUPATION*

Master Student

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### *EMPLOYER/STUDY PROGRAM*

Master in Epidemiology, LMU

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### *EDUCATION BACKGROUND*

Bachelor in Dentistry

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### *RESEARCH INTEREST*

Cancer on a molecular level researching on PCOD

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### *MOTIVATION TO TAKE THE COURSE*

I would like to understand clinical epidemiology better and be in touch with its current concepts

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### *CONTACT*

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## CHRISTINA STRAUß

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### *OCCUPATION*

PhD Student

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### *EMPLOYER/STUDY PROGRAM*

Bernhard-Nocht-Institute for Tropical Medicine, Hamburg

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### *EDUCATION BACKGROUND*

Master in Medical Biology

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### *RESEARCH INTEREST*

Currently working in basic research to examine functional mechanisms underlying associated intronic SNPs from a GWAS on severe malaria; would like to switch into a more applied direction

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### *MOTIVATION TO TAKE THE COURSE*

Since I am in the last year of my PhD now, the decision about how to proceed in my scientific career comes closer. I have been working in the field of genetic epidemiology since my Master thesis, but always in projects aiming to find out about functional mechanisms behind statistical associations. I came into this field as a lateral entrant since neither genetics nor bioinformatics and statistics caught my attention during my studies. Only through a lab-internship (in the lab where I later completed my master thesis) towards the end of my studies, the topic caught my attention.

I would like to study in this course to learn more about the basics of clinical and genetic epidemiology, get to know the strategic approaches when tackling the conduction of big studies and learn more about the application in other diseases. Furthermore, I am curious to pick up some of the spirit of the academic infrastructure in Munich that seems to be more focused and constructed for clinical and genetic epidemiology. In contrast, the groups I worked in have always been kind of "niche-groups" at bigger institutes.

My aim for this course is, to broaden and at the same time further deepen my knowledge in this fascinating field, so that I gain a clearer view on where to position myself in my future career.

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### *CONTACT*

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## XUDONG SUN

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### *OCCUPATION*

PhD Student

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### *EMPLOYER/STUDY PROGRAM*

Institute of Statistics, LMU

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### *EDUCATION BACKGROUND*

Master in Signal and information processing (sub-branch of wireless communication)

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### *RESEARCH INTEREST*

Multiobjective bayesian optimization, Time series classification/regression, Reinforcement learning, recommendation system. Gene regulation network, signal pathway

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### *MOTIVATION TO TAKE THE COURSE*

I am currently a PHD student in the statistics department of LMU and was the team leader of USTC-software for iGEM2011(Synthetic biology competition)<http://2011.igem.org/Team:USTC-Software/members> and I have done several biology projects during my master including peptide self-assembly, biology network reconstruction, protein-protein interaction and personalized drug design,etc. I would like to become an expert in personalized medicine in the future. I have taken a lot of biology related courses during my master study.

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### *CONTACT*

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SHUAI YIN

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*OCCUPATION*

Doctoral Student

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*EMPLOYER/STUDY PROGRAM*

LMU Klinikum

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*EDUCATION BACKGROUND*

PhD in Tumor Biology

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*RESEARCH INTEREST*

Angiogenesis, Chemotherapy Resistance, microRNA

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*MOTIVATION TO TAKE THE COURSE*

To better understand research methods of tumor biology and tumor genomics.

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*CONTACT*

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