



Ulm University, Germany

*32<sup>nd</sup> International Summer  
School of Epidemiology  
9<sup>th</sup> German Collaborative Summer  
School in Epidemiology  
at Ulm University*



Institute of Epidemiology  
& Medical Biometry  
July 22 – 26, 2024

The program is geared to persons with interest in the fields of epidemiology and public health. Professionals, scientists and students working in clinical medicine, epidemiology, public health, social insurance, health policy or health administration are welcome. All courses will be held in English.

## Course Outline

Morning sessions (parallel):

### **1. Introduction to Principles of Epidemiology**

**Jessie K. Edwards**

UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

### **2. Advanced Analytic Methods in Observational Epidemiology**

**Caroline A. Thompson**

UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

Afternoon sessions (parallel):

### **3. Communicating Science to the Public**

**Amy Sayle**

UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

### **4. Clinical Epidemiology**

**Sonia Napravnik**

UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

Participants may choose one course from the morning sessions and one course from the afternoon sessions. Participants will receive a certificate after successful completion of a course (compulsory attendance every course day).



ulm university universität  
**uulm**

**UNC**  
SCHOOL OF PUBLIC HEALTH

DG  
**e pi** DEUTSCHE  
GESELLSCHAFT  
FÜR  
EPIDEMIOLOGIE

In cooperation with the UNC Gillings School of Global Public Health at Chapel Hill, North Carolina, USA and the German Society for Epidemiology, Germany.

## **Course Descriptions**

### **1. Introduction to Principles of Epidemiology**

Instructor:

Jessie Edwards

This course introduces epidemiologic principles and their application to answer public health questions. The goal of the course is to provide a foundation in epidemiology for students to interpret epidemiologic studies, apply to their own research, and build upon during future study. Topics will include the components of meaningful epidemiologic questions, measures of occurrence and association, common study designs, and threats to validity. The course will also introduce basic analytic techniques to address common sources of bias. Each session will consist of both lecture and practice-based laboratory components.

### **2. Advanced Analytic Methods in Observational Epidemiology**

Instructor:

Carolina A. Thompson

This course focuses on advanced analytical methods that may be undertaken in the interrogation of an etiologic research question in epidemiology, from its framing, statistical analysis and interpretation. Topics will include directed acyclic graphs, model building strategies, assessment of effect measure modification, evaluation of threats to validity including confounding, information bias and selection bias and quantitative bias analysis. The course is targeted to students who have previously taken an introductory course in epidemiologic methods and are either currently analyzing their own data for epidemiologic research or have plans to do so in the future. Material will be taught using a mix of lectures and worked examples in the classroom.

### **3. Communicating Science to the Public**

Instructor:  
Amy Sayle

Many scientists are trained to communicate with other scientists, but not to broader audiences such as community members, policymakers or the media. In this course, students will gain experience in communicating science effectively to public audiences, both orally and in writing. Students will build skills in writing clearly and concisely, applying storytelling techniques, recognizing expert blind spots, explaining complex concepts with accessible language and developing comparisons to make numbers comprehensible. Throughout the course, students will actively participate in writing exercises, group activities, and discussion.

### **4. Clinical Epidemiology**

Instructor:  
Sonia Napravnik

This course will provide an overview of principles and methods in clinical epidemiology. Topics to be covered include study design, clinical trials, diagnostic testing, bias, overview of analysis methods, introduction to survival analysis, and communication of clinical epidemiologic findings. The course will be offered in a modular format and sessions will include didactic interactive lectures and problem-based discussions.

Dates: July 22 – 26, 2024  
Monday – Thursday: 09.00 am – 12.15 pm  
01.15 pm – 04.30 pm  
Friday: 09.00 am – 11.00 am  
11.15 am – 01.15 pm  
Every day there are two coffee breaks, one in the morning and one in the afternoon (Friday: one break).

Location: Ulm University / Helmholtzstraße 22 / 89081 Ulm

Fees: € 600.00 per course (€ 1,200.00 for two courses)  
  
€ 400.00 per course for members of the German Epidemiological Association (DGEpi) (€ 800.00 for two courses)  
  
€ 300.00 per course for employees of Ulm University and students (€ 600.00 for two courses)  
  
€ 10.00 per course material as hardcopy (course materials in electronic form included in course fees)

Fellowships: A limited number of fellowships is available for participants from low income countries.  
Deadline for fellowship applications: April 30, 2024

Number of Participants: Limited to a maximum of 25 participants per course

Application: Please use the enclosed application form

Deadline: July 10, 2024

Program Director: Prof. Dr. med. Dietrich Rothenbacher, MPH

Coordinator at the School of Public Health,  
University of North Carolina at Chapel Hill: Prof. Wayne Rosamond, PhD

For further information please contact: Nicole Kroll / Ulm University  
Institute of Epidemiology & Medical Biometry  
Helmholtzstraße 22 / D – 89081 Ulm  
Phone: +49 731 50 31076 / Fax: +49 731 50 31069  
Email: [nicole.kroll@uni-ulm.de](mailto:nicole.kroll@uni-ulm.de)  
<https://www.uni-ulm.de/med/epidemiologie-biometrie/>

# Application form

## International Summer School of Epidemiology at Ulm University July 22 – 26, 2024

Male: \_\_\_ Female: \_\_\_ Nationality: \_\_\_\_\_

Family name, degree: \_\_\_\_\_

First name: \_\_\_\_\_

Present occupation: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

How did you learn about our courses? \_\_\_\_\_

Your course material: Electronically: \_\_\_\_\_ Hard copy (€ 10,00): \_\_\_\_\_

Status:

- |  |   |
|--|---|
| <input type="checkbox"/> Regular application   | <input type="checkbox"/> Employee of Ulm University |
| <input type="checkbox"/> Member of the German<br>Epidemiological Association (DGEpi) | <input type="checkbox"/> Student                    |
|  | <input type="checkbox"/> Fellowship Applicant       |

### I would like to register for the following course(s):

Morning, 9:00 am – 12:15 pm  
(select one course)

- Course 1: Introduction to Principles  
of Epidemiology
- Course 2: Advanced Analytic Methods  
in Observational Epidemiology

Afternoon, 1:15 pm – 4:30 pm  
(select one course)

- Course 3: Communicating Science to the Public
- Course 4: Clinical Epidemiology

\_\_\_\_\_  
Place and Date

\_\_\_\_\_  
Signature

Deadline for application:

July 10, 2024

Please return to:

Nicole Kroll, nicole.kroll@uni-ulm.de  
Institute of Epidemiology & Medical Biometry  
Ulm University, Helmholtzstraße 22, D – 89081 Ulm