



Universität
Bremen



The Center for Statistics in Oldenburg and Bremen (ZeSOB) organizes a

Methods Week in Statistics

from February 14th to 16th, 2024, at the University of Bremen, on the topic:

“Efficient R Programming”

R is a robust statistical programming environment, widely recognized for its versatility. Its open-source framework makes it accessible across all platforms. With over 20,000 packages on CRAN and many more in the corporate world, R offers a comprehensive suite of solutions for statistical programming. During our two-day workshop at the University of Bremen we focus on efficient programming in R, discussing strategies to optimize your code for speed, while maintaining its readability and shareability. The workshop covers essential topics such as debugging and profiling in R, R's role in High Performance Computing, and how R interfaces with C++. We also delve into object-oriented programming in R as well as the process of R package development. For the final “bring your own problems” session, participants are encouraged to bring their own R code. Join us to enhance your understanding of R and to take your statistical programming skills to the next level.

Lecturers:

Prof. Dr. Peter Ruckdeschel, University of Oldenburg
Lars Andersen, Boehringer Ingelheim Pharma GmbH & Co. KG

Locations and Lecture Rooms:

Wednesday (14.02.) in GW2, 3rd floor, Room B 3009
Thursday (15.02.) and Friday (16.02) in SFG, 1st floor, Room 1010

Registration fees:

Bachelor and master students:	free of charge	
<i>Participation type</i>	<i>onsite</i>	<i>online</i>
Academic employees (including doctoral researchers):	65€	25€
Non-academic attendants:	130€	50€

The registration fee covers course material (slides in PDF format for password-protected download), as well as drinks and snacks during the coffee breaks and a light lunch on Thursday and Friday.

Please register via email to: zesob22@uni-bremen.de until February 7 and specify the following information: **first and second name, invoice address, registration category** (student, academic, non-academic), **and participation type** (online or onsite).

The registration becomes active once the registration fee is transferred to the bank account which you will find on the invoice. **Important:** Please provide the **invoice number, invoice date and your name** in the reference of your bank transfer!

Program of the ZeSOB Methods Week in Statistics on Efficient R Programming:

Wednesday, 14.02.2024 (GW2, 3rd floor, Room B 3009)

13:45h	Welcome (ZeSOB team)
14:00h – 16:00h	Efficient Programming in R
16:00h – 16:30h	<i>Coffee Break</i>
16.30h – 18.00h	R Interfaces
19.00h	<i>Dinner (self-financed, place to be announced)</i>

Thursday, 15.02.2024 (SFG, 1st floor, Room 1010)

09.00h – 10.30h	Object Oriented Programming
10:00h – 10:30h	<i>Coffee Break</i>
11.00h – 12.30h	Debugging & Profiling
12.30h – 13.30h	<i>Lunch break</i>
13.30h – 15.00h	R package development
15:00h – 15:30h	<i>Coffee Break</i>
15.30h – 17.00h	Testing in R
18.00h	<i>Dinner (self-financed, place to be announced)</i>

Friday, 16.02.2024 (SFG, 1st floor, Room 1010)

09.00h – 10.30h	R and Python
10:30h – 11:00h	<i>Coffee Break</i>
11.00h – 12.30h	High Performance Computing in R
12.30h – 13.30h	<i>Lunch break</i>
13.30h – 15.00h	“Bring your own problems”

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→ Richtung:
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


Findorff/Walle ←

Campingplatz

Stadtwald

Innenstadt ↓

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-  Straßenbahn
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