



HEIDELBERG
FACULTY OF
MEDICINE

**INSTITUT FÜR
ANATOMIE UND
ZELLBIOLOGIE**
HEIDELBERG



Summer School of Anatomy-based Sonography Heidelberg

27 July – 03 August 2024

Further information

SASH@uni-heidelberg.de

Instagram: [sash.heidelberg](https://www.instagram.com/sash.heidelberg)



Welcome to Heidelberg

Heidelberg is an exquisite, small city in southern Germany. It is located on the bank of the river Neckar, wedged in a marvellous V-shaped valley.

Heidelberg is well-known beyond Germany's borders principally for two reasons: first, it is a popular tourist destination - visitors are attracted especially by the romantic and picturesque city centre (*Altstadt*) and by the Renaissance castle ruins (*Heidelberger Schloss*), which tower proudly above the Neckar Valley; secondly, Heidelberg is the home of the oldest German university, Ruprecht-Karls Universität, founded in 1386.

Heidelberg University is closely tied into a world-wide network of research and teaching collaborations. Its motto "Semper apertus" (always open) perfectly reflects the open-minded attitude of the students, teaching body and the institution itself. About 20% of all undergraduates and more than a quarter of all enrolled doctoral candidates come from abroad. Furthermore, Heidelberg hosts some of the world's leading research centers and has been home of some of the world's brightest minds over the last few centuries.

Befitting its standing as a university town, Heidelberg offers a dynamic cultural life and numerous leisure activities to all its students. Countless pubs and restaurants are crowded with students on the weekends, and the town is renowned for its traditional breweries - you will be surprised by the culinary experiences they have in store for you!

Our aim is to make your stay in Heidelberg a memorable experience both on a professional and on a personal level. We look forward to welcoming you!

What is SASH?

SASH, "Summer School of Anatomy-Based Sonography Heidelberg", is a hands-on ultrasound course designed for international students only. Heidelberg medical students have access to this pathbreaking ultrasound course during their regular course of studies; SASH shares the content and techniques of that course with students from universities worldwide.

Objectives

During our classes you will use sonography as an educational tool to focus on the gross anatomy of the abdomen. You will quickly learn how to use the ultrasound device and how to read its images, thus gaining helpful skills for your later clinical application.

We address this offering to an international audience, since we want this to be a stimulating, fun atmosphere in which intercultural exchange occurs naturally.

"SASH is not only an ultrasound course, but also an opportunity for students to meet and discuss."



About SASH

How is the course structured?

Interactive lessons: 20 participants will be divided into small groups of 4 students. Each group will be guided through the program by an experienced student tutor.

Daily pre-tests: Every morning, a short test will be offered as an incentive to prepare for each day's subject.

Hands-on approach: Students will be encouraged to personally perform ultrasound examinations on each other, focusing on a new abdominal region each day.

Course Content:

Day 1 – Great vessels and retroperitoneum

Day 2 – Liver & gallbladder

Day 3 – Spleen & pancreas

Day 4 – Kidneys, bladder and internal genitalia

Day 5 – FAST (Focused Assessment with Sonography for Trauma)

We will also work on clinical cases in order to understand the differences between physiological and pathological findings and to highlight the relevance of ultrasound in clinical routine.

Manual: We will provide the participants with our own handbook, which covers all topics discussed during the lessons.

Clinical exposure: All students will attend a one-day clinical elective in one of Heidelberg University Hospitals' various departments.

Short presentation: All students will give a short presentation of a clinical case from their elective at the end of the week.

Who is eligible?

All medical students who have **completed** their **second year** of study or **successfully passed** all **anatomy examinations** can apply for SASH. We recommend the participation in SASH to students of the third and fourth year, as the course will mainly focus on preclinical and basic clinical contents. However, senior students are also warmly invited to take part in the course.

Participation fee

450 € including 7 nights of accommodation (breakfast included) as well as all course materials and most of extra-curricular activities.

When?

Saturday 27 July – Saturday 03 August 2024

Accommodation

The accommodation will be provided for all course participants. It is located close to the New Campus (Im Neuenheimer Feld) at Steffis Hostel (Alte Eppelheimer Straße 50, Heidelberg). Lecture rooms are within walking-distance (approx. 5 min).

Further information will follow after enrolment.

Summer School of Anatomy-Based Sonography Heidelberg – Program

	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MORNING		Introduction, Physical background	Sonography course 1	Sonography course 2	Internship Hospital	Sonography course 4	Presentation of cases	Departure
AFTERNOON	Arrival	Teambuilding walk	City tour	Free/ study time	Sonography course 3	Free Time	Sonography course 5	
EVENING	Welcome Night		Free/ study time	Cultural excursion	Free/ study time	Preparation of cases	Dinner + Party	

*Cultural excursion – e.g. theater play, concert, brewery tour

**Internship at Heidelberg University Hospital = a morning in the sonography department of one of Heidelberg's University Hospitals (e.g. gastroenterology, cardiology, gynecology, urology, nephrology)

Application

To apply for SASH, please make sure that you complete the **APPLICATION FORM** (see attachment) and supply the required documents:

- Statement of Motivation (one page, font size 12, line pitch 1,5)
- Curriculum vitae
- Certificate of enrolment at your current institution
- Proof of English proficiency (one of the following)
- IELTS test results: minimal overall score 6.5
- TOEFL test results: minimal overall score 94
- Cambridge exam: FCE (min. grade A) or CAE (min. grade C)
- Proof of English as a language of your current institution
- Copy of ID or passport
- Optional: letter of reference
- Copy of vaccination certificate

Application period **15 February 2024 – 1 April 2024**

Feel free to contact us if you have any further questions.

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History of the course

For the past thirteen years the anatomy institute has offered a popular and successful ultrasound course designed for preclinical students. Sonography is used in this course as a didactic tool to improve students' diagnostic skills as well as to enhance their spatial visualisation ability and their understanding of abdominal anatomy.

Heidelberg ultrasound classes represent an educational concept that is unique within Germany. Participating students are taught in small groups by experienced senior students. They are encouraged to personally perform ultrasound examinations on each other and to practice standard examination techniques.

PD Dr. Dr. Ralph Nawrotzki, who heads Heidelberg's ultrasound classes, considers student tutors the key to the seminars' success. A well-structured tutor training program consisting of theory, didactics and practical training, has resulted in cohort after cohort of extremely well prepared and highly motivated tutors. Heidelberg has offered excellent teaching during the past years and this year's tutors are looking forward to applying their experience and expertise in the SASH setting.

The Heidelberg ultrasound course is mainly a student initiative, and the relaxed atmosphere during classes facilitates a pleasant and efficient learning process. Our hope is that student-organized SASH will take this to the next level, offering an international, learning-rich environment, open to discussions and exchange of new ideas.

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