

To all first-year students of  
Machine Learning (MSc)  
winter semester 2023

Tübingen, den 12. August 2023

## **Machine Learning in Tübingen**

Dear newly-enrolled student,

we're happy that you begin your studies of Machine Learning in Tübingen. To facilitate your start to your studies, we want to provide you with some information which will help you get through the first weeks.

Who or what is this „student council“? We, the student council of computer science, are a group of students from the subjects computer science, bioinformatics, media computer science, cognitive science, medical informatics, and machine learning who commit themselves to the students' interests. Our work includes, on the one hand, the representation of students in university bodies, on the other hand, we try to facilitate the university lives of our fellow students (i.e. beginners care, events, mentoring, and so on).

We recommend participating at our beginners events because the transition to master's studies or from another university respectively often proves to be difficult. This way you get a first look into everyday life in Tübingen. At our events, there will be many students in higher semesters who are eagerly awaiting to answer all your questions. You can find an overview of our events on the following pages.

In case you have questions before or after our events, you can reach us by mail at [fsi@fsi.uni-tuebingen.de](mailto:fsi@fsi.uni-tuebingen.de). On our home page <https://www.fsi.uni-tuebingen.de> you can already find helpful information about your studies. If you're interested in collaborating with the student council, just come to one of our meetings! The current date will be published on our web page.

We're excited to meet you at our beginners events!  
Your student council of computer science

Editors: Anita & Samuel


## Your schedule for the first days

**Attention!** The dates of these events may still change. Be sure to check <https://www.fsi.uni-tuebingen.de/du-bist-ersti>, we will publish the latest information there.

**Note: Please register for all events**, unless it is explicitly stated that no registration is necessary. Further details on the respective event and the registration can always be found on <https://eei.fsi.uni-tuebingen.de>. If you have registered for an event but will not be attending, please deregister again.


### Board Game Night 1 – Wednesday, October 4th, 2023, Sand

We'd like to invite you to a board game night in relaxed atmosphere at the Sand. We'll provide some games as well as drinks and snacks (for a small donation). Even though our collection is growing steadily, we're more than happy if you bring along your own games!

 **bus stop:** Sand Drosselweg (bus lines 2 & 6)

### BBQ 1 – Friday, October 6th 2023, Sand, garden

You're not in the mood for cooking this evening? Fear not! The student council invites you for a BBQ. Bring whatever you want to put on the grill, please also bring your own plates and cutlery. The garden has enough space for stuff like volleyball, football etc. as well.

 **bus stop:** Sand Drosselweg (bus lines 2 & 6)

### Pub Crawl 1 – Tuesday, October 10th 2023

Tübingen is laced with small bars and pubs that have a significant impact on the night life in Tübingen. In order to calm down from the stress of this information-filled day, we'd like to invite you to go bar-hopping with us. We'll divide up into small groups and visit the different bars in the historic town center. Please bring enough cash, most places we will visit don't accept cards (*none whatsoever*).

### Semester Opening by Faculty – Friday, October 13th 2023, 16:00, N6 Morgenstelle

Department information session with presentation of all elective courses in the winter semester. This event is especially useful if you are new to Tübingen in order to get a first impression, which professors and courses you will be dealing with in the future.

### Hike 1 – Saturday, October 14th 2023

On a leisurely hike you will get to know not only your fellow students, but also a few lecturers and the worthwhile surroundings of Tübingen! The meeting point is at the Neckarbrücke *in front of the restaurant „Neckarmüller“*.


 **bus stop:** Neckarbrücke (lines 1-22)

### Capture the Flag – Sunday, October 15h 2023

We play a round of Capture the Flag together in real life. A wonderful opportunity to test our teamwork skills and meet new friends (or enemies).

### Board Game Night 2 – Wednesday, October 18th, 2023, Sand

We'd like to invite you to a board game night in relaxed atmosphere at the Sand. We'll provide some games as well as drinks and snacks (for a small donation). Even though our collection is growing steadily, we're more than happy if you bring along your own games!

 **bus stop:** Sand Drosselweg (bus lines 2 & 6)

### **Pub Crawl 2 – Thursday, October 19th 2023**


Tübingen is laced with small bars and pubs that have a significant impact on the night life in Tübingen. In order to calm down from the stress of this information-filled day, we'd like to invite you to go bar-hopping with us. We'll divide up into small groups and visit the different bars in the historic town center. Please bring enough cash, most places we will visit don't accept cards (*none whatsoever*).

### **City Rally – Friday, October 20h 2023**

On this evening, you can participate in a team-based scavenger hunt across the city, where you will get to know interesting, beautiful as well as disturbing spots within Tübingen. As a side effect, you will hopefully get to know your new home town a bit better and make new friends.

### **BBQ 2 – Wednesday, October 25th 2023, Sand, garden**

You're not in the mood for cooking this evening? Fear not! The student council invites you for a BBQ. Bring whatever you want to put on the grill, please also bring your own plates and cutlery. The garden has enough space for stuff like volleyball, football etc. as well.

 **bus stop:** Sand Drosselweg (bus lines 2 & 6)

### **Hike 2 – Saturday, October 28th 2023**

On a leisurely hike you will get to know not only your fellow students, but also a few lecturers and the worthwhile surroundings of Tübingen! The meeting point is at the Neckarbrücke *in front of the* restaurant „Neckarmüller“.

 **bus stop:** Neckarbrücke (lines 1-22)

### **Clubhausfest – Thursday, November 2nd 2023, 21:00, Clubhaus**

Every thursday during the lecture period, a different student body or group of students organizes the „Clubhaus Fest“ in the Clubhaus, which locates directly opposite of the new auditorium. Today the attendance is particularly worthwhile, because the student councils of computer science, cognitive science and psychology are hosting the event!

No registration necessary.

 **bus stop:** Uni/Neue Aula or Hölderlinstraße

### **Hike 3 – Saturday, November 18th 2023**

On a leisurely hike you will get to know not only your fellow students, but also a few lecturers and the worthwhile surroundings of Tübingen! The meeting point is at the Neckarbrücke *in front of the* restaurant „Neckarmüller“.

 **bus stop:** Neckarbrücke (lines 1-22)

### **fsi trial meeting – TBA (regular meetings: Thursdays, 18:30, Sand, A104)**

Hopefully, we were able to arouse your interest in student council work with our events. But we do much more than just first-year events, we represent the students in committees, we are contact persons, provide infrastructure and tools and much more. Just come to our tryout meeting <sup>1</sup> and see if you like it!

No registration necessary.

 **bus stop:** Sand Drosselweg (bus lines 2 & 6)

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<sup>1</sup>Of course we are also very happy if you already come to regular meetings before the trial session

## What to expect in your studies timetable

In your master studies you are relatively free in how you compile your timetable. However, it is important that you cover your optional areas of courses with ECTS credits. The following tables show some examples of choices for courses you can make, depending on which direction you want to focus. Note, that some lectures are only held in the winter, some only in the summer terms.:

### Focus on Theory:

1st. Semester	2nd. Semester	3rd. Semester	4th. Semester
Deep Learning	Statistical Machine Learning	Practical Machine Learning	Master thesis
Data Literacy		Numerical Algorithms of ML	
Mathematics of ML	Probabilistic Inference and Learning	Seminar ML	
	Convex and Nonconvex Optimization	Interactive Theorem Proving	
Algorithms and Complexity	Efficient ML in Hardware	Reinforcement Learning	
30 LP	30 LP	30 LP	30 LP

#### ECTS

ML-FOUND	Foundations of Machine Learning	24
ML-DIVERSE	Diverse Topics of Machine Learning	36
ML-CS	General Computer Science	18
ML-EXP	Expanded Perspectives	12
Thesis	Master thesis	30

### Focus on Industrial Applications:

1st. Semester	2nd. Semester	3rd. Semester	4th. Semester
Deep Learning	Statistical Machine Learning	Practical Machine Learning	Master thesis
Data Literacy	Probabilistic Inference and Learning	Self-Driving Cars	
Mathematics of ML		Seminar ML	
Cognitive Modelling		ML in Graphics and Vision	
	Ethics in Science	Advanced SQL	
German as Foreign Language	German as Foreign Language	German as Foreign Language	
30 LP	30 LP	30 LP	30 LP

#### ECTS

ML-FOUND	Foundations of Machine Learning	24
ML-DIVERSE	Diverse Topics of Machine Learning	36
ML-CS	General Computer Science	18
ML-EXP	Expanded Perspectives	12
Thesis	Master thesis	30

### Focus on Biomedicine:

1st. Semester	2nd. Semester	3rd. Semester	4th. Semester
Deep Learning	Statistical Machine Learning	Practical Machine Learning	Master thesis
Data Literacy	Probabilistic Inference and Learning	Time Series	
Mathematics of ML		Seminar ML	
Visualisation of large-scale data	Neural Data Analysis	Computational Microbiome Analysis	
German as Foreign Language	Ethics in Science	Systems Biology	
German as Foreign Language	German as Foreign Language	German as Foreign Language	
30 LP	30 LP	30 LP	30 LP

### ECTS

ML-FOUND	Foundations of Machine Learning	24
ML-DIVERSE	Diverse Topics of Machine Learning	36
ML-CS	General Computer Science	18
ML-EXP	Expanded Perspectives	12
Thesis	Master thesis	30

All three lectures out of *Foundations of Machine Learning* are mandatory, you need 24 ECTS. Out of *Diverse Topics in Machine Learning* you need 36 ECTS, of which no more than 6 ECTS can be from seminars and no more than 6 ECTS can be from practical ML. The areas *General Computer Science* and *Expanded Perspectives* are special. Here, you can attend any graded lecture out of Computer Science (for General Computer Science) or any graded lecture out of all the offered lectures in the whole university, except university sports (for Expanded Perspectives) for a total of 18 ECTS and 12 ECTS respectively. Further Information can be found in your module handbook at:

<https://uni-tuebingen.de/de/135400> **Important Online Portals**

To avoid missing out on any information concerning lecture times and places, please take a look at the two most important online learning portals.

- **alma** <https://alma.uni-tuebingen.de/>  
alma is the central course catalogue of the university. Once you've found your course here, you will find links to any course specific websites or portals. Towards the end of the semester you can register for your exams via alma as well.
- **Ilias/moodle** <https://ovidius.uni-tuebingen.de/>, <https://moodle.zdv.uni-tuebingen.de/>  
Ilias and moodle are the most commonly used communication tools. Although they hold lists of all courses, too, we would recommend alma as the start of your search for courses.

## Starting times and locations

Soon you'll notice: 9 o'clock means 09:15. At university lectures usually start c.t. (*cum tempore* - lat. with time). If something starts „sharp“, it will be announced as s.t. (*sine tempore* - lat. without time). In terms of times and locations you should take a look at alma before lectures start:

<https://alma.uni-tuebingen.de/>

## Mailinglists

There are several mailing lists so that important information reaches you.

The complete list can be found here: <https://www.fsi.uni-tuebingen.de/infos/maillists/>

- **info-studium: Subscription is mandatory.** This is the only way the professors can reach you!  
Registration at: <https://www.fsi.uni-tuebingen.de/mailman/listinfo/info-studium>.
- **info-talk:** This list is for topics that are not directly related to your studies, but may still be of interest. Registration at: <https://www.fsi.uni-tuebingen.de/mailman/listinfo/info-talk>.
- **info-jobs:** For paid offers of HiWi<sup>2</sup> jobs, internships as well as work-study jobs. Registration at: <https://www.fsi.uni-tuebingen.de/mailman/listinfo/info-jobs>.
- **coding:** Hackathons and other related events.  
Registration at: <https://www.fsi.uni-tuebingen.de/mailman/listinfo/coding>.
- **sport:** If you are one of those \*computer scientists who, contrary to the stereotype, like to do sports, the list sport is recommended to you. Registration at: <https://www.fsi.uni-tuebingen.de/mailman/listinfo/sport>.

## Public transport in Tübingen

Bus schedules can be found online<sup>3</sup> and in the Naldo app for Android and iOS.

The best way to get to the „Morgenstelle“ (see city map on the last page) is to take the bus (destination stop BG-Unfallklinik<sup>4</sup>). There is a very limited number of parking lots at the Morgenstelle, but one has to apply for a permission to use them, first. Most Master events/lectures take place on the „Sand“, the place of the WSI (Wilhelm-Schickard-Institut). To get to the Sand, take line 2, stop *Sand Drosselweg*. It is also easily reached by car as there are multiple parking lots. Some Machine Learning lectures take place in the Maria-von-Linden-Straße 6. To get there, take line 3, stop *Maria-von-Linden-Straße*. With your semester fee you have already paid part of the semester ticket for the bus (in addition to the student union fee and the matriculation fee).

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<sup>2</sup>wissenschaftliche/studentische Hilfskraft

<sup>3</sup><https://naldo.de/>

<sup>4</sup>**not** „Auf der Morgenstelle“!

The semester ticket costs 127,30 EUR and is valid in the whole Naldo area, a public transport system around Tübingen (unfortunately not to Stuttgart, but to Überlingen at Lake Constance).

The JugendticketBW (youth ticket) costs 153,70 EUR and is valid in the whole of Baden-Württemberg (not for long-distance lines, i.e. ICE, IC, EC and long-distance coach). In contrast to the Semesterticket, the JugendticketBW has an age restriction, it can only be purchased by students who are 26 years old or younger at the beginning of the semester. Both tickets are valid from October 1st.

As an alternative, there is also the Deutschlandticket, which is valid for one month and is available for 34,00 EUR. It should be noted that the paper ticket must be ordered by the 15th of the previous month at the latest, and the mobile ticket at least two days before the start of the month.

All three tickets are available in the DB travel centres and online<sup>5</sup>. For the online purchase you need a login ID of the university (starting with zx). In order to buy one of these tickets offline, you will need to show your student ID and the Semester Ticket Certificate<sup>6</sup>. For the JugendticketBW, you must also show an official photo ID as proof of age.

Naldo's leisure time regulations do also apply: Here you can use buses and trams within the Naldo area free of charge on weekdays from 7 p.m. and all day on weekends. All you need is your student card with the Naldo logo on it. Especially interesting if your parents are visiting Tübingen: On Saturdays you can take a free bus in the city area (tariff level 11), no matter if you are studying or not.

## Housing in Tübingen

Unfortunately, the topic of housing has not lost its explosive power in Tübingen in recent years, so that it may be difficult to find accommodation. We recommend the following two Studierendenwerke as your first points of contact: Application forms for a place in a hall of residence can be obtained from either the Studierendenwerk AdöR in the administration of the dormitory, Fichtenweg 5, 72076 Tübingen, or at the Studierendenwerk e.V., Rümelinstraße 8, 72070 Tübingen. For the private housing market, Wednesday and Saturday editions of the Schwäbisches Tagblatt are available. On the Internet the platform [www.wg-gesucht.de](http://www.wg-gesucht.de) is your best option. You can find more information on our homepage at <https://www.fsi.uni-tuebingen.de/erstsemester-faq/>.

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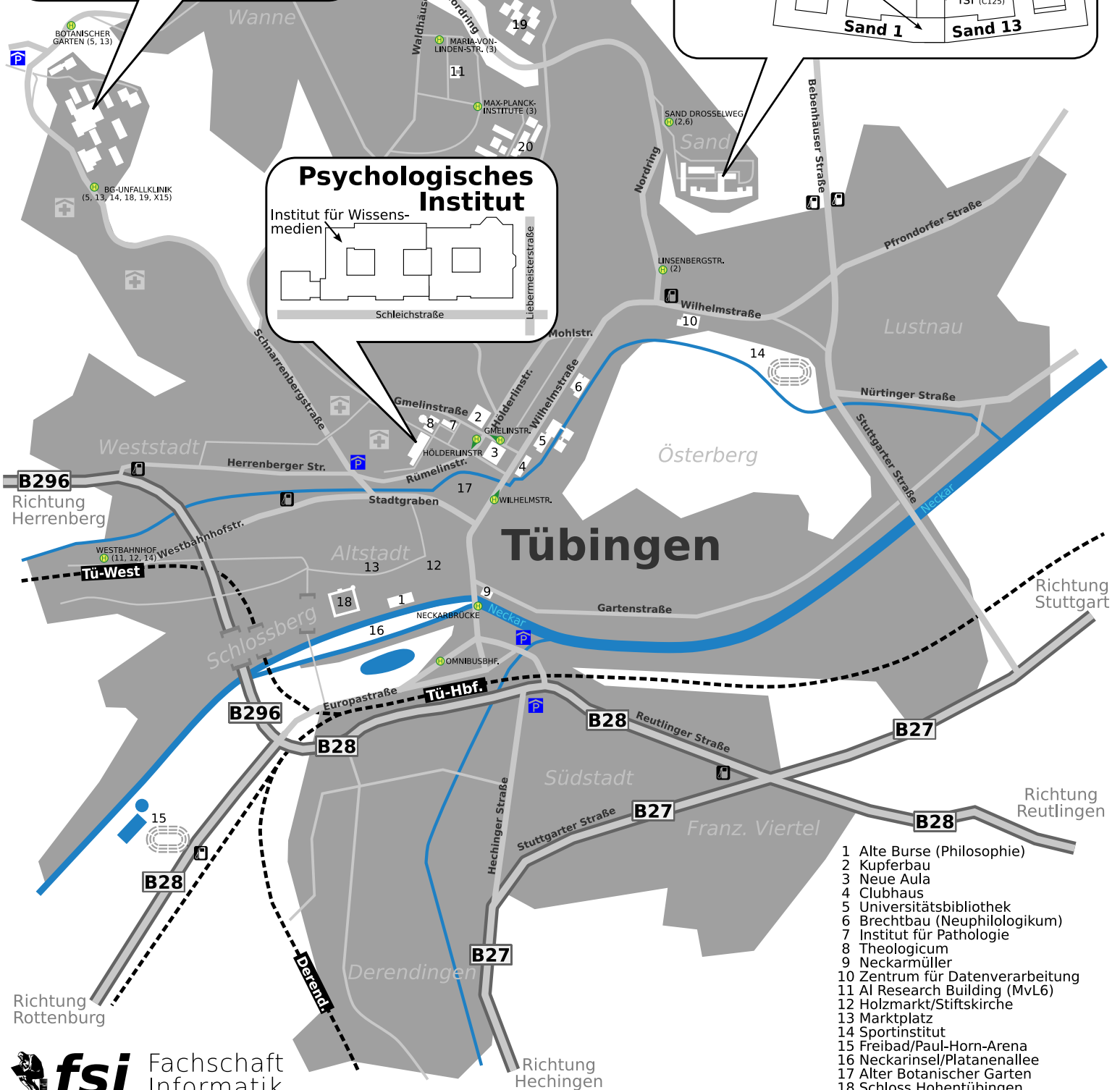
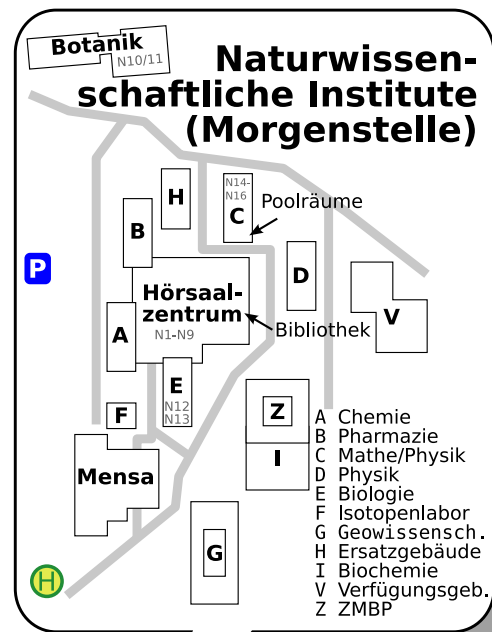
<sup>5</sup><https://tickets.naldo.de/>

<sup>6</sup>alma > My Studies > Student Service > Requested Reports/Reports > Naldo-Bescheinigung



# Tübingen

für Informatiker, Bioinformatiker, Medieninformatiker,  
Medizininformatiker, Kognitionswissenschaftler & ML



- 1 Alte Burse (Philosophie)
- 2 Kupferbau
- 3 Neue Aula
- 4 Clubhaus
- 5 Universitätsbibliothek
- 6 Brechtbau (Neuphilologikum)
- 7 Institut für Pathologie
- 8 Theologikum
- 9 Neckarmüller
- 10 Zentrum für Datenverarbeitung
- 11 AI Research Building (MvL6)
- 12 Holzmarkt/Stiftskirche
- 13 Marktplatz
- 14 Sportinstitut
- 15 Freibad/Paul-Horn-Arena
- 16 Neckarinsel/Platanenallee
- 17 Alter Botanischer Garten
- 18 Schloss Hohentübingen
- 19 Studentendorf Waldhäuser-Ost
- 20 Max-Planck-Campus