

## Semesterprogramm der HYT Young Academy Wintersemester 2023/2024

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**Do./Thu., 02.11.2023, 16:15-17:45, Raum/Room US-C 102**

*Psycholinguistics: How does our brain process language?*

Prof. Dr. Gero Kunter (Seminar für Anglistik, Fakultät I)

Language is one of the fundamental skills of human cognition, a skill that allows us to communicate our thoughts, feelings, and ideas. But have you ever wondered what happens in our minds when we attempt to process a written or spoken utterance so that we can actually understand its meaning? Welcome to the world of psycholinguistics, where we dive into the cognitive mechanisms that underlie our ability to understand and produce speech. This talk will introduce you to some of the key concepts in this fascinating sub-field of linguistics, to the experimental paradigms that are available to glean into how our minds work, and we will conduct some mini-experiments ourselves.

One of these key concepts is the "mental lexicon", that part of our brains where we store words together with their meanings, their spelling and pronunciations, and their connection to other words. We'll see how this mental lexicon is crucial for comprehending and producing language. Psycholinguists are also interested in understanding morphological and syntactic processing. We'll discuss how it seems to be such an easy task for our brains to break down sentences into single words, and words into smaller units, but at the same time analyse the order in which these words occur and which structures they form in a sentence.

We will also explore some of the experimental paradigms that are commonly used in psycholinguistics: lexical decision tasks will challenge your word-recognition skills as we investigate how quickly you can identify real words from non-existing words, and we will use self-paced reading experiments to find out how our brains work their ways through sentences — and what happens if we confuse our brains in the process. In order to participate in these experiments, please bring an internet-capable laptop with a keyboard to the talk.

**Di./Tue., 21.11.2023, 16:15-17:45, Raum/Room US-C 111**

*How to survive in science*

Prof. Dr. Otfried Gühne (Department Physik, Fakultät IV)

In the career of a scientist, there is a phase where one needs to establish oneself as an independent researcher. Typically, this starts in the last year of a PhD and ends when getting a permanent position. This period brings a lot of fun (including a lot of work), but it is also characterized by some specific challenges. In this talk, I will explain some of these challenges and discuss strategies to deal with them.

**Di./Tue., 12.12.2023, 16:00-18:00, Raum/Room US-C 111**

*Stipendiat\*innenkolloquium*

Die Stipendiat\*innen der HYT Young Academy kommen aus vielen verschiedenen Bereichen der Universität und forschen zu den unterschiedlichsten Themen. Mit dem Stipendiat\*innenkolloquium möchten wir Ihnen die Gelegenheit bieten, den übrigen Stipendiat\*innen in einem kurzen Vortrag die eigene, spannende Forschung vorzustellen – und im Gegenzug die Forschungsthemen der anderen kennenzulernen. Zwischen den Vorträgen wird es ausgiebig Zeit für Fragen und Diskussionen geben. Im Wintersemester 2023/2024 werden *Kira Grebing* (Department Erziehungswissenschaft, Fakultät II), *Maria Odoevskaya* (Seminar für Anglistik, Fakultät I) und *Jasmin Laura Gerfen* (Department Chemie-Biologie, Fakultät IV) Ihnen einen Einblick in ihre jeweiligen Forschungsgebiete und -themen geben.

### *Scholarship recipients' colloquium*

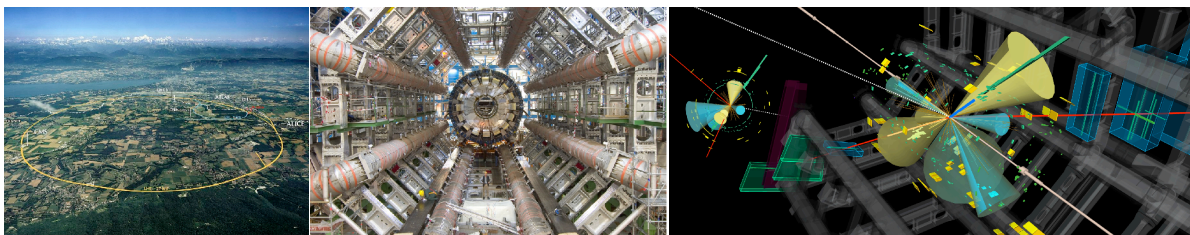
The scholarship recipients of the HYT Young Academy come from many different areas of the university and conduct research on a wide variety of topics. With the scholarship recipients' colloquium, we want to offer you the opportunity to present your own exciting research to the other scholarship recipients in a short talk – and in return to get to know the research topics of the others. Between the talks, there will be ample time for questions and discussions. In the winter semester 2023/2024, *Kira Grebing* (Department Erziehungswissenschaft, Fakultät II), *Maria Odoevskaya* (Seminar für Anglistik, Fakultät I) and *Jasmin Laura Gerfen* (Department Chemie-Biologie, Fakultät IV) will give you an insight into their respective research areas and topics.

**Di./Tue., 09.01.2024, 16:15-17:45, Raum/Room US-C 111**

### *Exploring the frontiers of particle physics at the Large Hadron Collider*

Prof. Dr. Markus Cristinziani (Department Physik, Fakultät IV)

The Large Hadron Collider (LHC) is the world's largest and most powerful particle accelerator. Located at CERN near Geneva, Switzerland, it collides high-energy proton beams to probe the fundamental nature of matter and the universe. This talk will provide an overview of the physics at the LHC, including the discovery of the Higgs boson, searches for new particles beyond the Standard Model, and investigations into the nature of dark matter. Join us for a journey through the frontiers of particle physics and the exciting discoveries being made at the LHC.



**Do./Thu., 25.01.2024, ab/from 17:00, Apollo-Theater Siegen (Morleystraße 1, 57072 Siegen)**

### *Führung durch das Apollo-Theater Siegen*

Ob Konzert oder Kinderstück, ob Schauspiel-Klassiker oder Schauspiel-Musik-Performance: Das Apollo-Theater Siegen bietet ein vielfältiges kulturelles Angebot für Siegen und das Siegener Umland. Seit der Gründung des Apollo-Theaters spielt im Programm auch immer das Kinder- und Jugendtheater eine wichtige Rolle und eröffnet jungen Menschen unterschiedlicher Altersgruppen vielfältige Theatererlebnisse. Gemeinsam möchten wir im Rahmen des Semesterprogramms der HYT Young Academy bei einer Führung durch das Apollo-Theater einen Blick hinter die Kulissen werfen.

### *Guided tour through the Apollo-Theater Siegen*

Whether it's a concert or a children's play, a classic play or a drama-music performance: the Apollo Theatre Siegen offers a diverse cultural programme for Siegen and the surrounding area. Since the founding of the Apollo Theatre, theatre for children and young people has always played an important role in the programme, opening up a variety of theatre experiences for young people of different age groups. Together we would like to take a look behind the scenes on a guided tour of the Apollo Theatre as part of the HYT Young Academy semester programme.

**Do./Thu., 01.02.2024, 16:15-17:45, Raum/Room US-C 102**

### *Preventing Idiocracy - some reports about combining family and academia*

Prof. Dr. Manuela Killian (Department Chemie-Biologie, Fakultät IV)

A successful academic career requires hard work, dedication, mobility and many working hours - definitely not a good base for starting your own family. This is the topic of the movie *Idiocracy* - admittedly, or hopefully, depicted a bit exaggerated. Fortunately, there are some examples of academics - male and female - that prove the possibility of combining a successful career with (actively) raising their kids. We will learn how this was done before - so that we can get some ideas on how both may work for us.