



# Chair of Information Systems IT-Management

Prof. Dr. Michael Amberg

# What do we do?

## Chair of Information Systems, esp. IT-Management

At the Chair of Prof. Dr. Michael Amberg, we strive to combine **Information Technology** with a **management perspective**. Therefore we tackle and try to improve tasks like **management of IT-architecture** or **management of global IT-projects**.

### IT

Artificial Intelligence

Big Data

Digitalization and Innovation

### MANAGEMENT

Information Management

Project Management

Architecture Management



# How can you write your Thesis at our Chair?



## 1. CHECK

Check our website for the latest research areas



## 2. THINK

Come up with a topic which is also interesting for you and also suits well for one of the research areas



## 3. PITCH

Write an e-mail to one of the employees at our chair and pitch your topic and further ideas for your thesis

# With whom can you write your Thesis?



**STEFAN ARNOLD**  
stefan.st.arnold@fau.de

Machine Learning in context of  
Genetic Algorithms



**MARTIN ENDERS**  
martin.enders@fau.de

Datamining in context of Industrie 4.0

## Example of completed Theses:

- Eine systematische Studie über Methoden zur Lösung des Job Shop Scheduling Problems unter Verwendung von Genetischen Algorithmen [B]
- Logging and Monitoring: Is your system SIEM-ready? [M]

## Example of completed Theses:

- Digital Twin Frameworks [M]
- Requirement analysis and development specification of a configuration system for Industry 4.0 solutions in logistics - a conceptual study [M]
- Systematic analysis of blockchain technology based smart contract development platforms [M]

# With whom can you write your Thesis?



**JOESPHINE FISCHER**  
josephine.fischer@fau.de

Blockchain in context of  
Supply Chain



**MARK KRAM**  
mark.kram@fau.de

Intelligent Applications  
Networks and Ecosystems

## Example of completed Theses:

- Entwurf einer Blockchain-Applikation mit Microsoft Azure – Entwicklung eines Prototypen zur intelligenten Lizenzbuchung [B]
- Strength and weaknesses of blockchain based security trading systems [B]
- Digital Value Selling – A practical approach based on the Siemens sales paradigm shift from product selling to value selling of digital solutions [M]

## Example of completed Theses:

- Corona Apps – A State of the Art Analysis [M]
- Utilizing EBICS and ISO 20022 in a microservice based API-Gateway [B]
- Explorative Analysis of existing AI-Platforms [B]

# With whom can you write your Thesis?



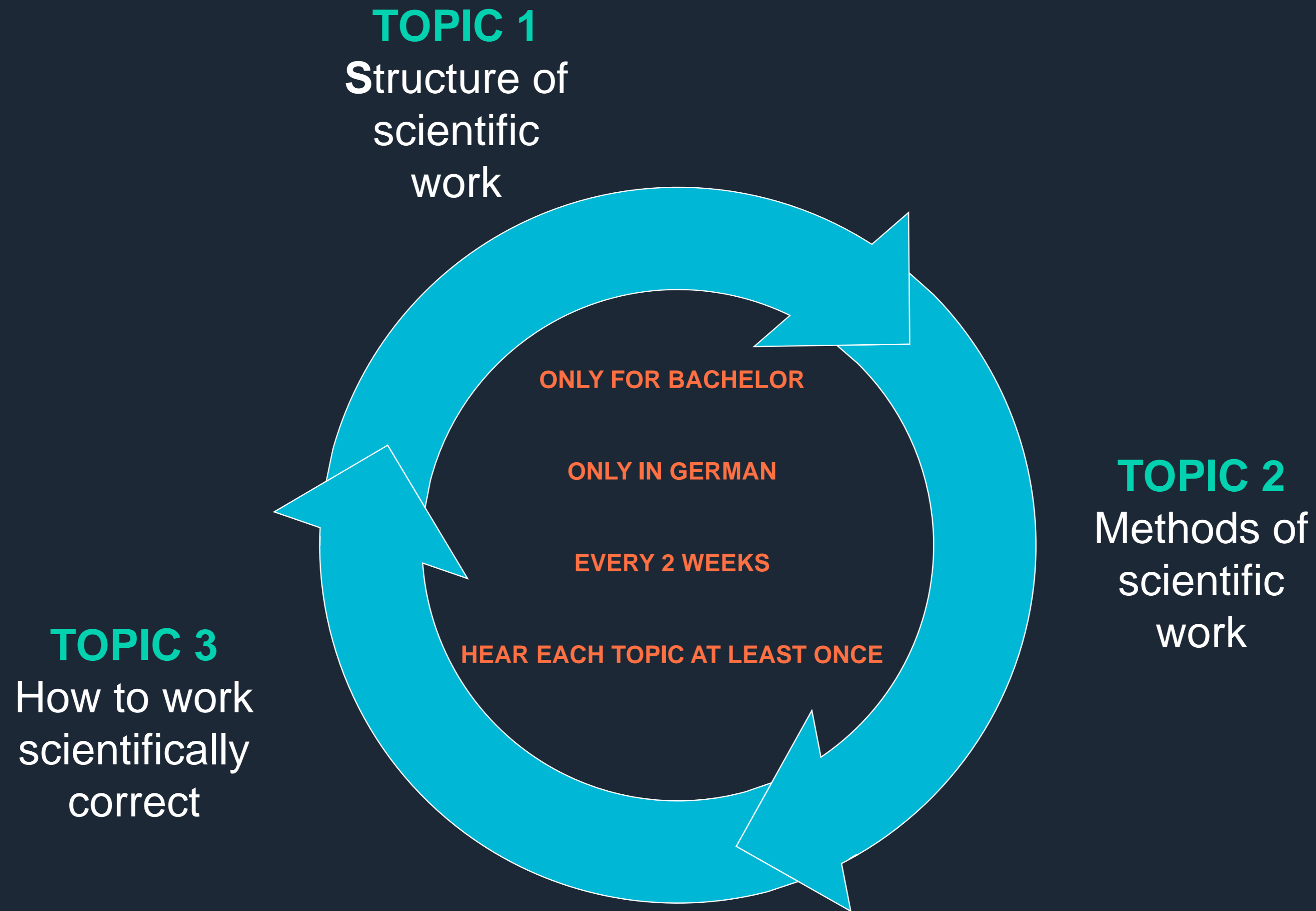
**DILARA YESILBAS**  
dilara.yesilbas@fau.de

Application of Deep Learning on  
Optimization Problems in the Manufacturing  
Industry

## Example of completed Theses:

- Image Classification of Printed Circuit Boards using Deep Learning [M]
- Deep Learning for Automated Optical Inspection [M]
- Optical Quality Control in Manufacturing through Deep Learning [M]

# Seminar for Bachelor-Thesis



# Praktikum Wirtschaftsinformatik (for Bachelor)

[RUW-2384]



OR



## Internship

- Min. 7 weeks
- Internship report
- About 300 working hours

## Assignment

- Only available if no internship is possible
- Written assignment at home (can also include programming or presentations)
- About 300 working hours



# CONTACT US

## IN GENERAL

## IIS GOING ABROAD

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# WE NEED YOU

If you want to **work** as a **research assistant** while you work on **your PhD** at the chair of Prof. Dr. Amberg, please write an application to [wiso-itm@fau.de](mailto:wiso-itm@fau.de)