

# David Jilg

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📞 Please Inquire via E-Mail for my phone number and full address

📍 Trier, Germany



🌐 [david-jilg.com](http://david-jilg.com)

🐙 [github.com/DavidJilg](https://github.com/DavidJilg)

🌐 [linkedin.com/in/david-jilg](https://linkedin.com/in/david-jilg)

📺 [youtube.com/Davidjilg](https://youtube.com/Davidjilg)

## Experience

### German Research Center for Artificial Intelligence (DFKI)

2022 - present

Researcher & Software Developer | Trier, Germany

#### Responsibilities:

- Developing AI-Planning Techniques for dynamic planning of industrial production processes
- Design, Modeling & Implementation of Semantic Information Systems
- Development of Software Frameworks for Business Process Management
- Supervising Student Researchers

#### Publications:

- Grüger, Joscha & Geyer, Tobias & Jilg, David. (2022). SAMPLE: A semantic approach for multi-perspective event log generation. [bit.ly/SAMPLE\\_Paper](https://bit.ly/SAMPLE_Paper)
- Jilg, David & Grüger, Joscha & Geyer, Tobias. (2023). DALG: The Data Aware Event Log Generator. [bit.ly/DALG\\_Paper](https://bit.ly/DALG_Paper)

### Personal Experience

I have significant experience with Robotics and CNC-Machines such as 3D-Printers, Laser-Engravers, and Plotters through my many art projects (see [david-jilg.com/projects/](http://david-jilg.com/projects/)). This includes, among other things:

- Designing Circuits | Controlling Motors, Actuators, and Solenoids with PWM
- Programming and Wiring Arduinos & Raspberry Pis with various Sensors
- Implementing Software for Machine-Control & Programmatically Generating G-code

## Skills

### Software Development

- Experienced in **Java & Python** | Familiar with **Go & JavaScript**
- Experienced with **Git** and remote repositories on **GitHub** and **GitLab**
- Web Development with **Flask, Hugo, Bootstrap & Tailwind CSS**
- UI Development with **QT**

### Knowledge Management

- Modeling Semantic Data Structures (e.g. Ontologies, Knowledge Graphs)
- Knowledge Management with **Apache Jena, RDF & OWL**
- Designing & Implementing Digital Twins

### AI-Planning

- Planning Domain Definition Language (PDDL), Fast Downward, OPTIC

### Graphic Design & Video Editing:

- Adobe Illustrator | Lightroom | Photoshop | Premiere Pro

### Office-Software:

- MS Office Suite | LaTeX

### Languages:

- **German:** Native Speaker | **English:** Fluent

## Education

### University of Trier

2016 - 2020

B.Sc. Business Information Systems (Satisfactory | GPA: 2.8)

- Business Administration & Management of Software Projects
- Software Development
- Intelligent/Semantic Information Systems

### University of Trier

2020 - 2022

M.Sc. Business Information Systems (Very Good | GPA: 1.4)

- **AI-Technologies:** Experience-Based Learning Systems | Agent Based Simulation | AI-Planning  
Process Mining | Machine Learning
- Advanced Software Development | Business Process Management
- Semantic Technologies (e.g. Digital Twins, Ontologies)
- **Thesis:** Jilg, David. (2022). *Generating Synthetic Procedural Multi-Perspective Electronic Healthcare Treatment Cases*, [bit.ly/Jilg\\_Thesis](https://bit.ly/Jilg_Thesis)