# Florian **Gisperg**

**About me**

As a dedicated Bioprocess Engineering Ph.D. candidate at TU Wien, I am interested in advanced machine learning techniques for bioprocess modeling and optimization. My passion lies at the intersection of biotechnology and data science, where I am currently responsible for the development of a Digital Twin for Inclusion Body Processing in collaboration with Boehringer Ingelheim RCV.

**personal**

Florian Gisperg
**Nationality**: Austria
**Date of Birth**: 1994-02-07

**Areas of specialization**

Bioprocess modeling • Machine Learning • Protein refolding • Fermentation • Digitalization and Digital Twins • Automation • Data Science

**Hobbies and Interests**

**music** listening and creating (clarinet)
**sports** climbing, skiing, trekking, running
**DIY projects** home improvement, coding, sourdough, fermentation,-..
**travelling**


florian.gisperg@tuwien.ac.at
floriangisperg


## Resumé

2023-2026 **Project Assistant | PhD Student**
TU Wien · Vienna
Development of a Digital Twin for Inclusion Body Processing in collaboration with industry partner, Boehringer Ingelheim RCV.

2022 **Graduand Student**
Boehringer Ingelheim RCV · Vienna
9 month project working on the modeling of microbial bioprocesses by the use of AI and sophisticated automation workstations.

2020-2022 **Process technician**
Boehringer Ingelheim RCV · Vienna
Process technician in the Upstream development of the Process Science department. Microbial fermentation of recombinant proteins and pDNA in pilot, laboratory and miniature scale. Process control, monitoring and analytics. Lab Management.

2014-2019 **Various Internships**
· Vienna
Internships at Synlab Institut (Clinical Chemistry), Medical University of Vienna (Cancer Research), BOKU University (Antibody Expression in CHO cells), and Angelini Pharma (Quality Assurance, Regulatory Affairs)

## Degrees

2026 **Bioprocess Engineering**
Ph.D. · TU Wien

2023 **Biotechnology**
M.Sc. · BOKU University

2019 **Food Science and Biotechnology**
B.Sc. · BOKU University

## Programming

python
LaTeX
R
Julia

## Conferences & Workshops

**2024** Poster presentation - BioProScale, TU Berlin
**2023** Advanced process data analytics workshop - DataHow AG & ETH, Zurich
**2023** High-throughput bioprocess development symposium, Vienna

## Languages

| | |
|---|---|
| **German** | mother tongue |
| **English** | ● ● ● ○ |
| **French** | ● ○ ○ ○ |

## Publications

**2024** *Bayesian Optimization in Bioprocess Engineering*, submitted.
**2024** *Mechanistic soft-sensor design for protein refolding processes based on intrinsic fluorescence measurements*, Comput. Chem. Eng.
**2024** *Online monitoring of protein refolding in inclusion body processing using intrinsic fluorescence*, Anal Bioanal Chem.
**2023** *State-of-the-art and novel approaches to mild solubilization of inclusion bodies*, Front. Bioeng. Biotechnol.


*Erdberger Lände 26/3/106 1030 Vienna, Austria* +43 699 1930 9081
florian.gisperg@tuwien.ac.at