

# Sebastian Heucke

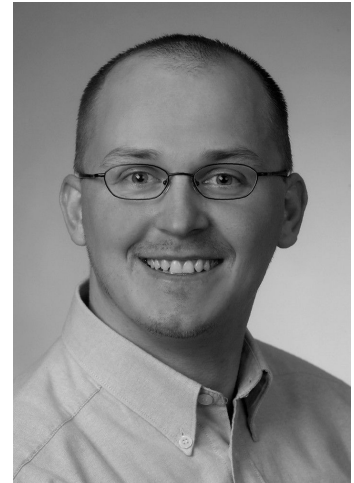
## Molecular Biologist

---

**Sebastian Heucke**

Bahnhofstraße 30a  
Grafring 85567

[sebastianheucke@gmail.com](mailto:sebastianheucke@gmail.com)



---

### Skills

- 
- Molecular biology and genetics through my studies at university.
  - Bioinformatics and NGS Knowledge from work experience and courses.
  - Programming languages: bash, python and R through courses and self education.
  - Data science and machine learning: Pandas, Numpy, Matplotlib, Sklearn, Pytorch, Jupyter notebooks, Colab notebooks through worked on projects
  - Building Web applications: Django, Html, Css, Heroku for easier availability and usage of results.
  - Instructor of internal SOP's

---

## Experience of last 6 years

---

### Institute of Pathology / Scientist

2015 - PRESENT, LMU Munich

2017-2020

- Development of small Web Applications with Python using Web Framework Django, Html, Css and Plotly
- Building up Machine Learning Knowledge
- Data science projects on clinical data
- Establishment of RNASeq: wet lab and setting up a pipeline using bash scripts, python and R
- Data analysis of RNASeq using Galaxy workflows
- RNASeq analysis using R in Jupyter notebooks
- Instructor for RNA Sequencing and Galaxy Server
- Supervision Linux Server infrastructure

2016-2017

- Establishment of new NGS panels
- Illumina: NextSeq 500
- Data analysis of NGS results
- Linux/Bash Scripting
- Development of tools using python
- Maintenance of Server IT NGS Ion torrent
- Instructor NGS SOP's

2015

- Wetlab NGS on platforms Ion Torrent: Chef, PGM, S5 Prime
- Process optimization NGS Panels for diagnostic routine
- Pyrosequencing technology
- Programming of tools for automation of NGS-workflows with VBA in Excel
- Library preparation and sequencing for clinical studies

---

## Education

---

### TH Karlsruhe / Master Biologie

October 1996 - June 2003, Karlsruhe