# Christoph Eberle

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## Work experience

**Ray Sono AG** — **Munich, Germany**
**Data Science and Machine Learning Intern** — Feb. 2020 - Present

- Developed a Gaussian Process model for time series forecasting, improving mid-term to long-term prediction quality over previous models
- Performed time-series forecasting with ARIMA and Facebook Prophet
- Worked on outlier detection and analysis in noisy, non-stationary time-series
- Performed auto- and cross-correlation analyses, revealing systematic sensor faults

## Projects (more details at christopheberle.github.io)

**Modelling the Impact of Contact-tracing Apps in Containing COVID-19**

- Implemented graphical model from the paper “Digital Herd Immunity and COVID-19” (Bulchandani et al.) in Python
- Simulated contact-tracing for different disease parameters and calculated containment probabilities

**Predicting Wildfires in the US**

- Built a Log-Normal Poisson model for predicting the number of monthly wildfires in the US in Python with PyMC

## Education

**Ludwig-Maximilians-Universität (LMU)** — **Munich, Germany**
**Master of Science in Physics** — May 2020 - Present

- Coursework: Machine Learning, Uncertainty in AI and Machine Learning, Information (Field) Theory, Monte-Carlo Methods, Signal Reconstruction in Python

**Ludwig-Maximilians-Universität (LMU)** — **Munich, Germany**
**Bachelor of Science in Physics** — Oct. 2016 - May 2020

- Coursework: Machine Learning in Python

## Skills

**Programming:** Python (NumPy, Pandas, PyMC, Tensorflow), R, SQL
**Languages:** Native Speaker of German, Fluent in English, Conversational in Japanese
**Others:** Microsoft Office