

# LEI MA

## Data Scientist & Ph.D. in Physics

@ leima137@gmail.com    📍 Cologne, Germany    🌐 leima.is    📧 emptymalei

## EXPERIENCES AND PROJECTS

### Data Scientist @ Saloodo! GmbH (Subsidiary of DPDHL Group)

- Built an automated road freight cost model with a complete ETL, training, and deployment machine learning pipeline for DHL Freight, providing insights and predictions to road freight pricing.
- Built a dynamic pricing system for the bidding process on our road freight marketplace, improving the fairness of the marketplace for all carriers and shippers while preserving privacy.
- Built classification models for our imbalanced financial data to help the finance team saving 30 hours every month.

### Data Scientist @ Homelike Internet GmbH

- Built ETL pipelines and maintained data warehouses for all the data homelike has, ensuring stable and clean data for our data science projects.
- Designed and built data products on geo-location based analysis and forecasting for customers on supply side, and helping them with data-driven decisions.
- Built automated data-driven marketing system with our CIO to automatically market on google ads, and boosted our performance marketing efficiency.
- Built user profiling algorithms and API to assist the pre-sale team and boosted their efficiency in lead management.

### Ph.D. in Physics @ University of New Mexico

- Developed analytical and numerical methods to compute and explain neutrino oscillations in different environments.
- Developed artificial neural network methods to solve neutrino oscillations using the supervised learning scheme.
- Wrote e-books of statistical physics and neutrino physics and helped students to dive deep into the modern statistical physics and neutrino physics.

### Founder of NeuronStar: Neuroscience, Machine Learning, and Complex Networks

- Design and organize reading clubs and online seminars discussing classical textbooks and state-of-the-art papers on computational neuroscience, statistics, machine learning, and complex networks.
- [neuronstar.github.io](https://neuronstar.github.io), [reading-club.github.io](https://reading-club.github.io)

### Founder of Interplanetary Immigration Center

- Founded Interplanetary Immigration Center to build hard science fiction by building a functional web product, pushing science fiction beyond books and movies.
- Built multiple API services around Mars to boost the life quality on Mars.
- [interimm.org/en](https://interimm.org/en)

## TECH STACK

Statistical Learning    Analytical Models

Data Visualization    Learning Theories

Python    Mathematica

C/C++    Javascript

Data Scraping    ETL

Containerization    Serverless

Dashboard Building    API

git    SQL    BigQuery    Random Forest  
Ensemble Method    Neural Networks  
Normalizing Flow  
Probability Estimation    pandas  
PyTorch    sklearn    Serverless  
Data Wrangling    EDA Workflow  
Dynamical Systems    Neuroscience  
Complex Networks    Logistics  
Marketplace    Transportation    Pricing

## LANGUAGES

Chinese

English

## EDUCATION & WORK

### Data Scientist

**Saloodo! GmbH**

📅 2019.11 - Now    📍 Cologne, Germany

### Data Scientist

**Homelike Internet GmbH**

📅 2018.08 - 2019.10    📍 Cologne, Germany

### Ph.D. in Physics

**University of New Mexico**

📅 2013.09 - 2018.07    📍 Albuquerque, USA

### B.Sc. in Physics

**Shandong University**

**National Science Talents Training Base**

📅 2006.09 - 2010.07    📍 Jinan, China