



Dr. Marc Lange

Mathematician
Data Scientist
Analyst

- Hamburg, Germany
- <https://github.com/Vassago1911>
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About me

problem solver
analytical, creative, abstract, thorough
Automation, Prediction, Reporting, Analysis.. no kind of data I can't force into an AHA!, that will work for years even without me :)

fluent in
python, sql, latex, zsh, english, german
Blender, Numpy, Pandas, ~~Matplotlib~~, Scikit-Learn, (Tensorflow), BERT, Tesseract, Tableau, Matomo, Google Ads, ..

models in
data, geometry, dynamical systems, algebra
Natural Language Processing, (Realtime) Audio/Video Processing, automated understanding, Chatbots, Revenue Prediction, Budget Optimisation

experienced with
developing people, relationships, models, processes
team lead experience, consultant experience, lots of experience in educating various people

Skills

- Math, Python, SQL, zsh
- Data Science
- git, cloud, team lead tasks :)

Education

- 2011-2015 Doktor (Ph.D.) "magna cum laude" Majoring in Mathematics, Minor Physics Hamburg
 - 2005-2011 Diplom "sehr gut" Majoring in Mathematics, Minor Computer Science Hamburg
 - 2005 Abitur Specialized in mathematics and chemistry. Schleswig-Holstein
- Languages:
German (native)
English (fluent)

Theses

- 2015 PhD Multiplicative structures and involutions on algebraic K -theory
- 2011 Diplom Examples of Involutions on Algebraic K -Theory of Bimonoidal Categories

Experience

- 2018-2019 Tech Lead, BI / Data Science AppLike GmbH, Hamburg
 - doubled the margin share of revenue by mathematical optimisation of our bids
 - educated one working student in tracking, reporting and modelling (Python, SQL, Elastic, Machine Learning)
 - define half year goals for Team BI
 - presented on our sales event for our Top10 partners
 - joined career fairs to approach business and tech applicants
 - attended a Sandler Workshop with the Sales-Team
 - filled in as Product Owner for a backend-team in March 2018
 - advising a master thesis in AppLike to synthetically generate fraudulent behaviour, so we can find new security holes - will finish in July
- 2016-2017 Business Intelligence (BI) Analyst AppLike GmbH, Hamburg
 - center between tech and business: tracking and reporting
 - communicating with external partners for integrations - e.g. Appsflyer, Singular, King, Playrix, etc.
 - occasionally explaining new tech features to business
 - push a business request to the backend informally when efficient and needed
- 2007-2015 Various Tutoring jobs University of Hamburg
 - instructed classes in Linear Algebra, Set Theory, Mathematics for Physicist

Other information

As a mathematician and a general tech enthusiast I am not fixed to specific areas of application. Currently my business expertise stems from a well-scaling business model in mobile marketing for the gaming sector, but I can see myself in contexts which are more scientific, more compassionate, or also more classic than this digital sector.

I generally make it a point to look for a diverse and kind environment of colleagues and contribute to that myself. I bring in some diversity expertise from contributing in university to the "AG Queer Studies". At the yearly Chaos Communication Congress I keep myself informed and inspired on current scientific developments as well as the ethics of tech. Finally I usually try to code one or two new papers (usually from arXiv, e.g. <https://arxiv.org/abs/1901.02878v1>) on machine learning in my spare time, so I will tell you when the most promising AI-development comes.

Hobbies: Gaming (Pen and Paper (DnD), PC (Starcraft, Mass Effect)), Sports (Yoga, Gym, BJJ (retired)), US-Series to keep my English current

Salary expectation: 80.000€ +