



Dr. Marc Lange

Team Lead, Data Science,
Business Intelligence

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About me

problem solver
analytical, creative, abstract
 Automation, Prediction,
 Analysis.. no kind of data I
 can't simulate or model into a
 Aha! Regression, that will work
 for years even without me :)

fluent in
*python, sql, latex, zsh, english,
 german*
 Blender, Numpy, Pandas, ~~MatX~~,
 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 people, sometimes
 in things I've just researched a
 week ago myself :)

Skills

- Abstract Mathematics
- Data Science
- Teamplayer

Education

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