

# Gennaro Tedesco

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## *Curriculum Vitae*

### Current Position

2023–present: **Team lead artificial and document intelligence** at Finlink, Berlin.

Responsible of a team of software and machine learning engineers implementing and integrating machine learning models and document intelligence into our software. We replace several aspects of manual work with fully automated solutions, such as document classification, information extraction, text generation, data validation and more. Our solutions are used by both banks and independent advisors. My role as manager is to ensure that company objectives are efficiently translated into our software, as well as to supervise the entire development and infrastructure process.

Technologies: Azure document intelligence, openAI LLMs and agents, Kafka, Kubernetes, Redis.

### Experience

2021–2023 **Tech lead data science**, Billie, Berlin.

Team lead supervising development of machine learning services in payment and identification domain: payment validation, identification of suspicious buyers and credit risk. My role was to direct the entire development process, from the initial business requirements through the scientific phase of model development until service integration in our platform.

2019–2021 **Senior data scientist**, Billie, Berlin.

Introduction and development of the entire area of NLP in the financial domain to assess risk and detect fraud. Language model classification with general deep learning algorithms on structured text; time series analyses in the financial domain and test of hypotheses for statistical significance. Development and deployment of (internal) applications for business intelligence.

2016–2019 **Data scientist**, Leverton, Berlin.

Development of deep learning models in NLP with corresponding classification algorithms. Implementation of predictive models, time series analyses and hypotheses tests. Development of internal applications for business intelligence.

2015–2016 **Data scientist**, HelloFresh, Berlin.

Development of prediction and forecasting models for customers churns and acquisitions. Study of time series behaviours, network analyses, implementation of machine learning algorithms for classification and regression.

2014–2015 **Data Analyst**, Bank of America Merrill Lynch, London.

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## Academic Education

- 2011–2014 **PhD in theoretical physics**, Georg August University of Göttingen, magna cum laude. PhD thesis *“Modular structure of chiral Fermi fields in low dimensional conformal field theory”*.
- 2005–2011 **Master degree in theoretical physics**, University of Naples, 110/110 cum laude. Thesis *“Discrete quantum field theory of the gravitational field”*.

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## Personal projects:

- Author of several neovim plugins and command line applications
- Invited speaker for podcasts and meetups

I regularly contribute to open source projects, mainly in the area of cli programmes and neovim codebase.

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## Computer languages

Languages	Python, R, Go, Lua, SQL, bash, awk, L <sup>A</sup> T <sub>E</sub> X, Rust
Infrastructure	docker, kubernetes, AWS, Azure
cli	jq, visidata, sed, awk, dvc, GNU core utils
Monitoring	Grafana, Kibana, Tableau, Sisense

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## Languages

Italian	<b>Mother tongue</b>
English	<b>Fluent</b>
German	<b>Very good</b>
Chinese	<b>HSKI</b>

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## Publications

- G. Tedesco: *“Modular structure of chiral Fermi fields in conformal quantum field theory”*; eDiss SUB Göttingen
- K. -H. Rehren, G. Tedesco: *“Multilocal Fermionization”*; Lett. Math. Phys. **103** (2013) 19 [arXiv:1205.0324 [math-ph]].

### Unpublished material

- G. Tedesco: *Introduction to the theory of connections on principal bundles*;
- G. Tedesco: *Generalised Efron’s dice problem: simple solutions*;
- G. Tedesco: *R for data science*;

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## Interests

- I play basketball and chess in my spare time (less often tennis and volleyball)
- I played a major role in a short film (available online) about cultural exchanges among different countries at high academic level