CAREER PROFILE

As a CMIO in healthcare, I leverage my leadership experience in computer science, healthcare, and data science to drive strategic innovation for transformative patient care. Having successfully led diverse IT teams through realignment and restructuring, I champion collaboration among researchers, clinicians, and IT experts, transforming complex health data into actionable insights that power data-driven decision-making. My passion lies in architecting robust IT ecosystems, developing high-performing teams, and guiding the strategic use of cutting-edge technologies to create lasting impact in the healthcare field.

EXPERIENCES

Chief Medical Information Officer
2021 - Present
Luxembourg Institute of Health, Luxembourg

My mission is to spearhead a secure and innovative IT ecosystem that empowers researchers and clinicians to seamlessly collect, integrate, and analyze diverse health data. This includes leading the data integration center, collaborating with partners, and championing data-driven research that accelerates healthcare breakthroughs.

- Design and maintain the IT ecosystem of the LIH in support of its research endeavors
- Managed budgets strategically, ensuring cost-effectiveness and maximizing ROI on technology investments.
- Championed internal and external communication of the data integration and analysis unit in close partnership with the LIH communications team. Cultivated strong relationships with stakeholders to ensure services remain aligned with evolving research needs.
- Ensure the security and confidentiality of the data in accordance with legal and ethical requirements
- Led the successful integration of four independent teams (totaling 30 professionals), driving alignment with departmental and organizational goals.
- Actively participated in management board meetings to represent the needs of the IT Department. Promoted LIH initiatives at national and international levels.

Head of Medical Data Integration Center (DIC)
2019 - 2021
Universitätsmedizin Mannheim, Mannheim

As the head of the medical data integration center, I led a team to extract the raw data out of hospital primary systems and refine them for use in secondary research projects.

- Professional and disciplinary guidance of 15 people
- Preparation of project plans and monitoring of their implementation by the teams
- Budgeting, controlling, reporting and forecasting of various projects
- Design, implementation, and strategic development of the DIC
- Data transfer from clinical supply systems to a data warehouse and processing of data analysis requests

Data Engineer
2018 - 2019
Universitätsmedizin Mannheim, Mannheim

I worked at the department of Biomedical Informatics to build up the data integration center from scratch.

- Architect for the archiving solution of the research data for the MIRACUM consortium
- Database design and management
- Development and orchestration of data pipelines
- Responsible for eCRFs, pseudonymisation and consent management

Software Developer
2016 - 2018
PTA GmbH, Mannheim

Development of software for fully automated clinical lab systems for a client. The software is developed under FDA and the medical device regulatory framework.

- Design and development of a test framework for a project internal programming language
- Development of an autonomous decision algorithm for immunological test series
- Build Master for the project. Built and maintained the infrastructure to build and automatically test the software

CURRENT PROJECTS

Clinnova - I am PI and part of the Luxembourg leadership team. I drive the development of a transnational federated data infrastructure for Clinnova. Collaborate with international institutions and lead multidisciplinary teams to establish secure data governance and interoperability standards, enabling transformative precision medicine research.

Datenmanagement und Archivierung im Umfeld der Forschung - I teach a module in data management in the master program "Master Biomedizinische Informatik und Data Science" at the faculty for computer science at the Hochschule Mannheim.

Maximilian Fünfgeld
CMIO

- 🌐 youtube.com/c/Fuenfgeld
- in Fuenfgeld
- ✗ Maximilian_Fuenfgeld
- Fuenfgeld
- @mfuenfgeld
- Resume PDF

EDUCATION

MSc in Computer Science
Hochschule Mannheim
2017 - 2020

PhD in Biochemistry
Max Planck Institute for Molecular Plant Physiology, Potsdam
2011 - 2016

MSc in Molecular Biology
Göttingen University
2009 - 2011

BSc in Biology
ETH Zürich
2006 - 2009

LANGUAGES

German (Native)

English (Professional)

INTERESTS

Teaching

Boardgames

Cooking

📄 PUBLICATIONS AND AWARDS

Here are selected contributions.

- Sucrose synthases are not involved in starch synthesis in Arabidopsis leaves
Fünfgeld MMFF, Wang W, Ishihara H, Arrivault S, Feil R, Smith AM, Stitt M, Lunn JE, Niittylä T.
Nature Plants, 2022

- Award DMEA Nachwuchspreis 2021 (Young Talent Award)
Maximilian Fünfgeld
DMEA Connecting Digital Health Convention, 2021

🔧 SKILLS & PROFICIENCY

Medical Informatics

IT Strategy and Implementation

Team Leadership and Management

Budget and Financial Management

Cybersecurity and Risk Management

Change Management and Digital Transformation

Stakeholder Management and Communication

Project and Program Management