

CURRICULUM VITAE  
Aaron K. Althaus

PERSONAL INFORMATION

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**Residence** Switzerland, Carte de Légitimation  
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**Phone** +41 76 769 1945

EXPERIENCE

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**2021–present** **Independent Consultant / Freelance**  
*Conducted various freelance contracts; led app development projects as a project manager.*

**02.2024–08.2024** **Researcher, UN Volunteer, Morobe Development Foundation (Remote)**  
*Conducted systematic literature reviews and authored research articles (peer-reviewed submissions), showcasing solid research design, analytical abilities, and scientific writing expertise. Achievements: Submitted two papers to reputable academic journals; one to be published in 2025.*

**06.2023–09.2023** **Intern, Behavioral Science Research, BeHive Consulting, Budapest, HU (Remote)**  
*Authored literature reviews in behavioral science (human decision-making, cognitive biases), designed and analyzed quantitative/qualitative research, and visualized findings for client presentations. Achievements: Customer segmentation in Python that provided behavioral insights for clients.*

**2019–2021** **Software Project Manager, Mango Byte Technology Co., Phnom Penh, KH (Remote)**  
*Led international and cross-functional teams, guaranteeing stakeholder cohesion in intricate projects; acquired expertise in processing extensive datasets and overseeing analysis workflows. Achievements: Founded partnerships with two international clients; represented company at international networking conferences.*

**2018–2019** **Market Researcher, BRN Technology, Izmir, TR**  
*Performed quantitative and statistical analysis of markets, public procurements, and competitors in the global medical devices sector. Achievements: Introduced products into Nordic market; Created new product line based on market analyses of medical devices.*

EDUCATION

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**2021–2023** Graduate school, IU University of Applied Sciences (Internationale Hochschule), Bad-Honnef, DE  
**2023** **Master of Science in Data Science, 3.3 GPA**  
*Relevant coursework: Advanced Statistics, Advanced Mathematics, Data Science & Society, Deep Learning, Model Engineering*

**2014–2016** Undergraduate school, University of Washington, WA, USA  
**2016** **Bachelor of Arts in Psychology, 2.76 GPA**  
*Relevant coursework: Human Cognition, Perception, Statistics, Research Methods, Abnormal Psychology, Personalities Disorders, Animal Behavior*

RESEARCH

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**08.2024** "Mangrove-based carbon market projects: Current trends and future perspectives", Systematic review, Journal of Environmental Management (submitted)

**07.2024** "Analyzing the influence of climate and anthropogenic development on vegetation cover in the coastal ecosystems of GCC", Earth Systems and Environment (accepted for publishing 2025)

**09.2023** **"Opportunities for cognitive modeling in software project management: the value of applying cognitive science to conceptual models", master's thesis**  
*Investigated how cognitive science principles (e.g. attention, decision-making, memory) inform conceptual models in software project management, highlighting theoretical and computational modeling expertise.*

**07.2022** "Open access to big energy data using data lakes", IU

**04.2022** "Artificial neural networks in renewable energy: forecasting, prediction, and optimization", IU

**09.2021** "Minimizing least-square residual error of linear models in python", IU



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## PROJECTS

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- 11.2024-present** Computational Neuroscience Blog (<https://aaronaltscience.substack.com/>)  
Personal blog with a focus on computational neuroscience and cognition, created to help comprehend fundamental neuroscience concepts (e.g. neuronal dynamics, LIF models); further iterations will discuss current research in the field and showcase individual research projects.  
*Skills: Academic writing, research, communication*
- 05.2023** Forecasting Model of Rescue Drivers Using MS-TDSP  
(<https://drive.google.com/file/d/1eulvqh1aVUYQvc82k58gEMXqZgiqXjk9/view>)  
A case study in model engineering: forecast models using different ML algorithms were created to provide the most efficient number of rescue drivers to keep on standby. Benchmark models were created using common error metrics, and were refined and delivered to the client through complex analysis.  
*Skills: ML, Python, time series analysis, data visualization, model engineering*
- 10.2021** Business Intelligence Case Study: Sylt Fish Specialties  
(<https://drive.google.com/file/d/1zOksALCJqjjWzJu-0XNho7ql52m8gyuJ/view?usp=sharing>)  
A case study in Business Intelligence: A data model was developed and implemented, utilizing data warehousing and ETL concepts. A live data dashboard was populated using test data to exemplify its modern data storage techniques, and complex analysis was conducted and presented.  
*Skills: DWH, ETL, Apache Druid, Superset, Python, SQL*

## CERTIFICATIONS

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- 03.2024** Certified Associate in Project Management (CAPM), PMI (ID: 3795893)
- 09.2020** Professional Scrum Master 1 (PSM1), Scrum.org (ID: akalt@protonmail.com)
- 06.2020** Advanced Algorithmics and Graph Theory with Python, edX
- 06.2020** Mathematical Thinking in Computer Science, Coursera
- 03.2020** Java Data Structures and Software Design, edX
- 12.2019** Computing in Python-Professional Certificate Program, edX
- 04.2016** Protecting Human Research Participants, The National Institutes of Health (NIH)

## CONFERENCES

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- 02.2025** 2025 Annual Meeting of the SSN  
*Volunteer with the young Swiss Society for Neuroscience (ySSN) to help organize the 7th Annual Early-Career Researchers Symposium 2025 in Lausanne, CH; Grading conference posters and abstracts, arranging travel grants, and assisting with conference organization.*
- 11.2019** RISE (Hong Kong, PRC) & Web Summit (Lisbon, PT)
- 06.2019** *Represented Mango Byte as a Project Manager; Networked with CEOs/CTOs of tech startups.*

