

Jan C. Brammer

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I'm a **software gardener** developing open source **software for science**, wrestling the **complexity demon** along the way.

Experience

Software developer / RWTH Aachen / 2021-present

I'm implementing open source research-data-management tools for inorganic chemists under the umbrella of the **NFDI4Chem** initiative, collaborating with a distributed team of developers and chemists.

Chemotion ELN

repository

Maintaining and extending an open source electronic lab notebook for chemists. International, distributed team of developers and chemists.

TUCAN

repository

Developing and maintaining a domain-independent (i.e., organic and inorganic chemistry) descriptor and identifier for chemical molecules.

Staff scientist / Radboud University Nijmegen / 2017-2021

Worked in research and development with tasks ranging from software development and data science to experiment design, and the publication of scientific articles.

biofeedback application development

repository / article

Integrated heart and breathing sensor data into a virtual reality training to help Dutch police officers regulate acute stress. International, interdisciplinary collaboration of police, game developers, designers, and scientists.

Personal Projects / The Internet / ongoing

NeuroKit

repository / article

Implemented and maintain four core algorithms of one of the most popular open source software projects for physiological sensor data analysis. Remote, international, interdisciplinary collaboration of developers and scientists.

biopeaks[repository](#) / [article](#)

Developed and maintain an open source graphical user interface for the interactive analysis of physiological sensor data.

Skills

- open source software development
- writing (e.g., technical documentation, scientific articles)
- data science (wrangling, visualization, machine learning, inferential statistics)
- physiological sensor data (electrocardiogram, photoplethysmography, breathing)
- real-time digital signal processing
- experiment design

Technologies

Languages: Python, Ruby, JavaScript, Bash

Version control & Collaboration: git, GitHub

DevOps: Docker, GitHub Actions

Testing: pytest, RSpec

Databases: Redis, PostgreSQL

Frameworks: PySide6 (Qt for Python)

Education

MSc Cognitive Neuroscience, Maastricht University, 2015-2017

BSc Psychology, Maastricht University & Concordia University
Montreal, 2012-2015