SaskiaHiltemann

Post-Doctoral Researcher, Bioinformatics & Education



About Saskia Hiltemann, Ph.D.

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ORCiD: 0000-0003-3803-468X

Languages

Fluent: Dutch, English Some: German & French

Tech Skills

Galaxy, UNIX, GitHub, Jekyll, Python, C, C++, Docker, LaTeX, HTML, CSS, Javascript

Other Skills

Training, Community Building, Outreach & Dissemination

Interests

Bioinformatics, Education & Training, Open Science, FAIR principles, Community Building, Genome Sequencing, Plant reserach, Cancer Research, Microbiome Analysis, Workflows, Automation, Visualisation, Best Practices, Infosec, CTF, Traveling, Hiking, Reading, Puzzles.

Projects

Selection of recent projects.

2015-current Galaxy Training Network (GTN): Training Materials, Infrastructure & Community Building

GalaxyProject

Co-founder of the GTN infrastructure for the collaborative development of Galaxy training materials. Community building efforts to ensure utility for educators. Development of numerous tutorials on the topics of Metagenomics, Sequence Analysis, Galaxy Development and Visualisation. https://training.galaxyproject.org

2023-current MAdLand Project

Molecular Adaptation to Land: plant evolution to change Scientific tool development and Data stewardship

2020-2023 Gallantries Project, Project Coordinator & Work Package Lead

ErasmusMC, Erasmus+ KA203 grant

Development of bioinformatics curricula for higher education and later-career reserachers training workshops. Building of training infrastructure for educators, with a focus on remote training

2019-2023 CINECA project, Wok Package co-lead of Training & Dissemination

ErasmusMC, Horizon2020 grant

CINECA (Common Infrastructure for National Cohorts in Europe, Canada, and Africa) aims at creating a global infrastructure for fedarated data analysis. Co-lead of the Training & Dissemination workpackage, and also involved in the Healthcare Interoperability & Clinical Applications work package.

Publications

Selection of scientific publications.

2023 Galaxy Training: A powerful framework for teaching!

PLOS Computational Biology

DOI: 10.1371/journal.pcbi.1010752

2020 Galactic Circos: User-friendly Circos plots within the Galaxy platform

GigaScience

DOI: 10.1093/gigascience/giaa065

2019 Galaxy mothur Toolset (GmT): a user-friendly application for 16S rRNA

gene sequencing analysis using mothur

GigaScience

DOI: 10.1093/gigascience/giy166

2018 Community-driven data analysis training for biology

Cell Systems

DOI: 10.1016/j.cels.2018.05.012

2018 Development and evaluation of a culture-free microbiota profiling plat-

form (MYcrobiota) for clinical diagnostics

European Journal of Clinical Microbiology & Infectious Diseases

DOI: 10.1007/s10096-018-3220-z

2017 ASaiM: a Galaxy-based framework to analyze raw shotgun data from

microbiota

GigaScience

DOI: 10.1093/gigascience/giy057

2015 Discriminating somatic and germline mutations in tumor DNA samples

without matching normals

Genome Research

DOI: 10.1101/gr.183053.114

2014 iReport: a generalised Galaxy solution for integrated experimental re-

porting

GigaScience

DOI: 10.1186/2047-217X-3-19

For a full list of publications, please see ORCiD: https://orcid.org/0000-0003-3803-468X

Community Activities

ongoing MicroGalaxy Community co-lead

Community Building, Tool development, workflow development, training

Creating a community around microbial analysis in Galaxy. Identifying needs

of the community and developing solutions to address those needs.

ongoing Galaxy Intergalactic Utilities Commision (IUC) member

Galaxy Tool development

Best-practice Galaxy tool development and maintenance.

ongoing Galaxy Working Groups

Galaxy, Training, Outreach

Member of the Galaxy Outreach & Training working group.

Grants

Selection of grants obtained.

2020 Gallantries Project

Erasmus+ Programme of the European Union

Grant number KA203, 2020-1-NL01-KA203-064717 https://gallantries.

github.io/

2019 Cineca Project

Horizon 2020

Grant Agreement No 825775, https://www.cineca-project.eu/

2019 Gallantries Pilot Project

Mozilla Mini Science Grants

Employment History

2023-current Albert-Ludwigs-Universität Freiburg

something

Post-doctoral Bioinformatician

- · Data stewardship
- · Galaxy tool and workflow development
- Plant genome analysis
- Scientific software development

2012-2023 Erasmus Medical Center, Rotterdam

Bioinformatician & Scientific Researcher

Post-doctoral Researcher & Bioinformatician

- · Galaxy tool and workflow development
- · Education & Curriculum Development
- · Microbiota Analysis and Antibiotic Resistance Detection
- Prostate Cancer Analysis
- · Software Development and Pipeline building
- · Galaxy System's Administrator
- · Training, Outreach & Dissemination
- · Federated Data Analysis Infrastructure Development
- FAIR data analysis

2010-2012 After's Cool, The Hague

Tutor of High School Students.

Tutor of High School Students. Math, Physics, Chemistry

Education

2021 Ph.D. Bioinformatics

Erasmus Medical Center

Thesis: "Jigsaw Genomics: Assembling the pieces toward open and acces-

sible bioinformatics for everyone"

2010 **M.Sc.**

LIACS, University of Leiden & TU Delft

Computer Science, Specialization in Bioinformatics

2008 **B.Sc.**

LIACS, University of Leiden Computer Science

2002–2005 **B.Sc. course work**

University of Leiden
Physics & Astronomy

2002 High School (VWO)

Alfrink College, Zoetermeer

Specialization in Science & Technology