

CORRELCON 2021

A WEEKEND FOR DATA4GOOD

NOVEMBER 12-13

Note: all times are given in UTC+1

November 12

17:00 - 17:30 (Stage) | #data4good, #npo

Keynote: Data and Impact Measurement

Description will be added soon.

Speaker: Johannes Müller (CorrelAid e.V.)

17:30 - 18:30 (Stage) | #data4good, #correlaid, #npo

Project Showcase

In the project showcase, volunteers from our Data4Good project teams show how they have been supporting non-profit organizations with their data challenges. Topics include: report automation, creating an interactive report based on survey data, analysis of community dynamics, predictive modelling and using image data to improve cargo bike routing. The projects are:

- **Hacklab Developer Census:** Hacklab Ghana Developer Census 2020 is the first and most comprehensive survey of people who code in Ghana. We developed an interactive HTML Rmarkdown report that showcases the results covering everything from developers' favorite technologies and languages to their job preferences.
- **CargoRocket: Classification of Road Quality Using Crowd-Sourced Images:** A cargo bike has its own unique requirements in terms of road conditions, which must be considered when planning a route. Therefore, CorrelAid volunteers developed a Python program that uses machine learning to classify road surface and pavement quality based on crowd-sourced street images.
- **Citizen Science Project:** We've analyzed data of the Citizen Science Platform *iNaturalist*, where users can upload observations of plants and animals, and other users can help identify them. We found out a lot of cool things on how the user base changed over time, what types of users there



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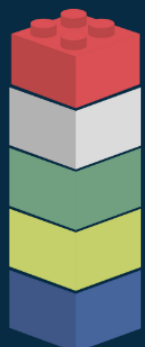


are, and much more - we're writing a paper about it! I'll also share some lessons learned. Spoiler: Exploratory data analysis can eat a lot of time.

- **Citizens for Europe Report Automation:** Together with Citizens for Europe, we developed a workflow that allows for flexible generation of reports on discrimination and diversity within organizations. We will present how to go one step further than parameterized reports, building R-Markdown templates in a modular, more adaptable way.
- **Science on Stage :** Description will be added soon.
- **The impact of Voting Advice Applications on local politics:** The CorrelAid team supported "Team Tomorrow" with the analysis of data from the "KOMUNAT", an entirely candidate-based voting advice application (most famously known in Germany: the "Wahl-o-mat") for the local town elections in Stuttgart in May 2019, developed to address the traditionally low voter turnout amongst the young first-time-voters. Overall, two major topics had to be investigated: the user statistics for product improvement and the political analysis to assess both the political preferences of the app users and the potential impact of the VAA on local politics.
- **Mare Liberum: Data visualizations to bring attention to illegal push-backs:** Push-backs are a set of state measures by which refugees and migrants are forced back over a border without considering individual circumstances and allowing them to apply for asylum. Mare Liberum gathers data on the illegal practice at the Mediterranean sea and publishes documentation on observed occurrences. Supporting their mission through data, CorrelAid has helped to conduct data analysis and provide visualisations for their annual report and consulted them on data collection and storage.
- **Addressing deforestation in Kosovo:** Correlaid Netherlands, the Institute of GIS and Geospatial Technology of Kosovo (IGGTK), and Sustainability Leadership Kosova (SLK) worked on a joint project to address the deforestation issue in Kosovo. The main goal of the web platform (<https://www.slkosova.org/mosemerrmalin-welcome>)? Displaying maps of the deforestation events that occurred in the last 20 years to educate and raise awareness of this massive issue affecting Kosovo. #MoseMerrMalin
- **Gmoji :** G-Moji is developing a mental health support app for adolescents



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and wanted CorrelAid's help in assessing the feasibility of mood prediction from its pilot phone sensor and survey data.

Speakers: François Delavy, Sofia Thai, Alina Dallmann, Frank Schlosser, Christine Hedde-von Westernhagen, Tim Fangmeyer, Andreas Neumann (CorrelAid), Aylin Kallmeyer, Lukas Gröninger, Federico Franciamore, Wen Qiang Toh (aka Wally, Data science volunteer at CorrelAidX NL)



18:30 - 18:40 (Networking) | #offline



Break

Topic Sessions

18:40 - 19:40 (Sessions) | #npo, #security

Information security for the social sector

Ransomware, leaks, data loss, and what to do about it (in COVID times): In this talk, Ilja will introduce us to the pillars of Information Security, provide an overview of organisational and individual threats, and outline mitigation strategies - all with a focus on NGOs. The talk will include an actionable plan for your team to get started.

Speaker: Ilja Sperling (Freelance Dev & former NGO Tech Lead)

18:40 - 19:40 (Sessions) | #npo, #education

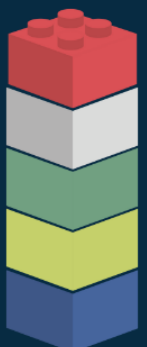
Data Science Education

Data science is a broad field. Together, we will explore which skill paths a data enthusiast for good may choose and what is needed to excel both professionally and ethically. We will then look at how we can translate those skills to foster data literacy in the civic sector.

Speakers: Nina Hauser (CorrelAid e.V.), Vik Paruchuri (Dataquest)



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18:40 - 19:40 (Sessions) | #npo, #data4good

Daten im sozialen Sektor: Chancen und Hürden

Description will be added soon.

Speakers: Georg Förster (AWO Bundesverband), Kwesi Aikins (Citizens for Europe), Frie Preu (CorrelAid e.V.), tba (Deutsche Stiftung für Engagement und Ehrenamt)



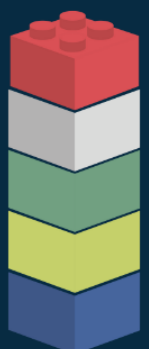
19:40 - 22:00 (Gather.Town) | #community, #networking

Game Night - organized by CorrelAidX Berlin

Join us on Gather.Town for a fun Friday night to connect and share. We will provide the games but it is BYOB (Bring your own beverage).



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November 13

10:00 - 10:30 (Stage) | #correlaid

CorrelAid in 2021

Frie Preu, Head of Operations, will walk you through the CorrelAid year 2021 with all its milestones, achievements and challenges.

Speaker: Frie Preu (CorrelAid e.V.)

Data Science, Climate Change and the Environment

10:30 - 10:45 (Stage) | #data4good, #climatechange

Tackling Climate Change with AI

Artificial Intelligence (AI) and Machine Learning (ML) provide powerful tools to tackle climate change in various applications: They can support climate change mitigation, for instance, by helping reduce greenhouse gas emissions within various applications. They can help to adapt to a changing climate and even advance climate science itself. However, AI and ML are not silver bullets and can always only be one part of the solution. This talk provides an overview of the strengths and weaknesses of ML, some example applications and recurring themes.

Speakers: Marcus Voss (Climate Change AI, Intelligence Architect and AI Expert at Birds on Mars)

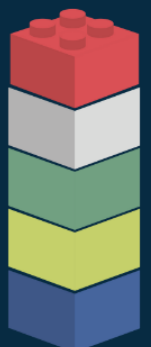
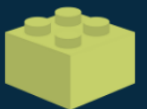
10:45 - 11:00 (Stage) | #data4good, #sustainability, #usecase

Analysing financial portfolios for climate and sustainability impact

Description will be added soon.



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Speaker: Constanze Bayer (2° Investing Initiative (2DII))

11:00 - 11:15 (Stage) | #data4good, #usecase

tba

Description will be added soon.



11:15 - 11:30 (Stage) | #datascience, #sustainability

Sustainability of AI

This talk is about the impacts of AI-systems from a sustainability perspective. Based on current work within the project SustAIIn we present first ideas for a comprehensive sustainability assessment of AI-Systemes. With this effort we want to raise discussions amongst industry, developer communities and society about how to reduce social, economic and environmental risks throughout the whole lifecycle of AI-systems and call for action to make AI-systems more sustainable.

Speaker: Friederike Rohde (Institut für Ökologische Wirtschaftsforschung)

11:30 - 12:00 (Stage) | #

Q&A

Description will be added soon.

Speakers: Marcus Voss, Constanze Bayer, Friederike Rohde, tba



12:00 - 13:30 (Stage) | #break, #offline

Lunch Break

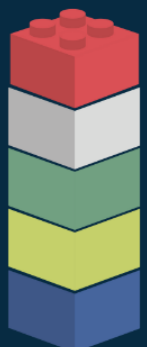
Topic Sessions

13:30 - 14:30 (Sessions) | #careers

Pathways to Data Science



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Description will be added soon.

Speakers: Andrew Sutjahjo, Allison Koh, Sharon Gieske

13:30 - 14:30 (Sessions) | #careers

A guide through the IT project management jungle: Agile, Scrum, waterfall

Description will be added soon.

Speaker: tba



13:30 - 14:15 (Sessions) | #usecase, #data4good

CeMAS

Description will be added soon.

Speaker: Josef Holnburger

Beginner Sessions

14:30 - 16:00 (Sessions) | #rstats, #workshop

Beginner session R

In this session you will learn first steps with R and RStudio, like reading data from a csv file, data wrangling and creating simple crosstables and plots. We will mostly use base R and packages from the tidyverse, which are a great starting point for beginners.

Speaker: Ann-Kristin Vester



14:30 - 16:00 (Sessions) | #python, #workshop

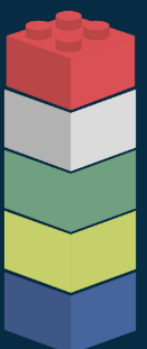
Beginner session Python

Description will be added soon.

Speaker: Tilman Kerl



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Advanced Sessions: Working with Geospatial Data

14:30 - 15:00 (Sessions) | #geospatial, #dataviz, #mobility

Taking the shortest path - analysis of bicycle infrastructure data in cities

This talk will be all about biking in cities: you will see a brief introduction in tools for scraping and visualizing bicycle infrastructure data of cities. Based on a case study, we discuss a simple method for analyzing bicycle networks and explore how this could provide insights for mobility planners.

Speaker: Fabian Schaipp (TU München)



15:00 - 15:30 (Sessions) | #geospatial, #mobility, #python

CargoRocket: How to use OpenStreetMap and Graphhopper to create a custom routing for Cargobikes

Navigation apps for cars and bikes fail to properly serve the needs of cargobikes that are allowed to use bike tracks but, e.g., get stuck at too narrow barriers. With the open source project CargoRocket we aim to provide a routing specifically for cargobikes. This talk gives technical details how OpenStreetMap is used to create a "CargoBikeIndex" for every street and how this index is incorporated into Graphhopper, an open source routing engine.

Speakers: Alexandra Kapp (cargorocket, CorrelAid)



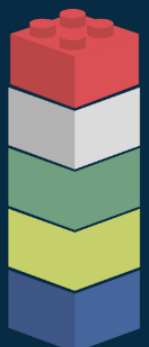
15:30 - 16:00 (Sessions) | #geospatial

Introduction to analysing spatial data in R

Description will be added soon.



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Advanced Sessions: Modelling Corner

14:30 - 15:00 (Sessions) | #modelling

tba

Description will be added soon.

15:00 - 15:30 (Sessions) | #modelling

tba

Description will be added soon.



15:30 - 16:00 (Sessions) | #modelling, #python, #usecase

Network models for analysis of NGOs

In this talk we will discuss different network models and how they can help us to model some processes in nature and especially from data. We will look into some examples as well as talk about packages for their implementation. We will also discuss particular cases of where network analysis could be useful for some NGOs.

Speaker: Liu Bauer



Advanced Sessions: Data Visualization

14:30 - 15:00 (Sessions) | #dataviz, #rstats

Creating your own custom ggplot2 themes and colour scales

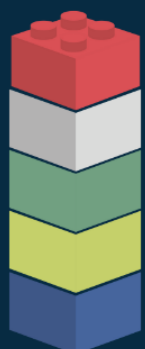
Description will be added soon.

Speaker: Long Nguyen

15:00 - 15:30 (Sessions) | #dataviz, #python



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A picture is worth a thousand words - Visual Data Exploration

Data is manifold, which makes it hard to discover its secrets and hidden relationships. Data Scientists can rack their brain on descriptive statistics or choose to explore the data using interactive visualisation tools. While both ways have benefits and dangerous pitfalls, the latter is definitely the more fun. This talk will help you discover your data visually by showing how you can quickly transform simple plots into powerful, interactive dashboards using Panel. Furthermore, it will provide you with a quick overview over Python's most loved interactive plotting libraries and show how you can combine those in a single, interoperable dashboard.

Speaker: Nico Kreiling

15:30 - 16:00 (Sessions) | #dataviz, #accessibility

Revealing Room for Improvement in Accessibility within a Social Media Data Visualization Community

Screening of the talk "Revealing Room for Improvement in Accessibility within a Social Media Data Visualization Community" held by Silvia Canelón and Liz Hare at csvconf. Followed by a Q&A and discussion of tips outlined in this blog post. For a description of the talk, see here. License information: "Revealing Room for Improvement in Accessibility within a Social Media Data Visualization Community" by Silvia Canelón and Liz Hare, available on YouTube, used under CC-BY-SA 4.0

Speakers: Silvia Canelón, Liz Hare

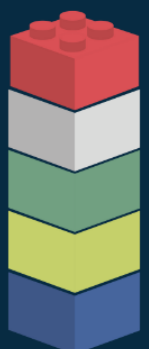


Advanced Sessions: Tooling & Software Development

14:30 - 15:00 (Sessions) | #tooling



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Git internals (or understanding git): The three basic git objects and their relation to git's way of version control

Git as a version control program can be confusing. This talk aims at helping you to understand git better by knowing some internals of the program: Who does git version control is build around the three basic git objects? Afterwards you hopefully grasp what git trees are made of, that each node in these trees represent a snapshot of your working directory and how branches work. There will be a brief demo of the core concepts. Audience: You use git, but sometimes get confused why something did not work. Hopefully knowing some basics about the internals will help you with these struggles.

Speaker: Henry Weibel (Researcher at Novo Nordisk Foundation Center for Protein Research)

15:00 - 15:30 (Sessions) | #tooling, #workflow

Makefiles

Description will be added soon.

Speaker: Malte Kyhos

15:30 - 16:00 (Sessions) | #softwaredevelopment, #rstats

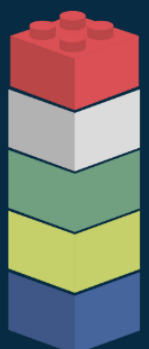
Big things come in small packages – Tips and tricks for developing your own R package

R is a great resource for data management, statistics, analysis, and visualization – and it becomes better every day. This is to a large part because of the active community that continuously creates and builds extensions for the R world. During the talk, I will provide you with tips and tricks for contributing to this world by writing packages. If you want to get a quick introduction before the talk, here is a hands-on tutorial on how to write your first R package.

Speaker: Cosima Meyer



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16:00 - 16:45 (Wonder) | #careers, #community

Career Networking

Speaker: tba



16:45 - 17:30 (Stage) | #community, #correlaid

CorrelAidX Pecha Kucha

Meet our local chapters through this engaging presentation format and see where you could find a chapter that might work for you.

Speaker: CorrelAid volunteers from different local chapters.

17:30 - 17:45 (Stage) | #community, #correlaid

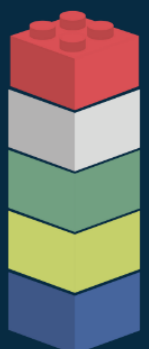
Thank you and goodbye

A warm thank you from us to participants, speakers and sponsors of CorrelCon!

Speaker: CorrelCon organizers



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