

WORK EXPERIENCE

GESIS - Leibniz Institute for the Social Sciences

Cologne, Germany

Research Software Engineer

10/2020 - Present

- Development and maintenance of [GESIS notebooks](#), [Persistent BinderHub](#) and [gesis.mybinder.org](#).
- Technical stack: Python, Docker, Kubernetes, CI, Jupyter

Independent Contractor

Remote

Software Engineer (Research - Scientific Python)

08/2019 - 10/2020

- Worked with the econ-ark team to develop the HARK project (economic modelling of heterogeneous agents) and worked on the tooling of the Python data science stack in the project for reproducible builds of research projects/notebooks.
- Technical stack: Python, Cloud (GCP, custom), Docker, Kubernetes, CI, Jupyter

Google Summer of Code

Remote

Open Source Developer and Organisation Administrator

April 2015 - Present

2020, 2019, 2018, 2017 - NumFOCUS Organisation Administrator [Volunteer Position]

- * Responsible for the organisation(and mentoring) of GSoC for NumFOCUS. 111 student summer projects over 4 years.

2016 - National Resource of Network Biology, Developer [Funded position]

- * Added functionality to upload GPML format files to graphspace.org, a network sharing platform primarily used by biologists to share biological pathways. Used different tools like Python, Django, JavaScript, jQuery, Git.

2015 - Python Software Foundation, Developer [Funded position]

- * Redesigned the core API to be iterator friendly and moved from list/dictionary returns to iterators. Used Python for most of the work and software tooling(Git, Sphinx, documentation).

ICTEAM, Universite catholique de Louvain

Louvain-la-Neuve, Belgium

Research Assistant(Data Science) working on consensus in networks.

05/2018 - 08/2019

- Used tools from time series analysis, network science, machine learning, geospatial analysis while working on multiple research projects. Technical stack: Python and the PyData ecosystem(pandas, numpy, matplotlib, scikit-learn, etc.)

Mathematics Institute, University of Oxford

Oxford, United Kingdom

Visiting researcher with Renaud Lambiotte working on information extraction from Wikipedia.

01/2018 - 05/2018

Complexity and Networks, University of Namur

Namur, Belgium

Research Internship with Renaud Lambiotte working on algorithms for directed networks

08/2017 - 12/2017

Laboratoire d' Informatique de Paris 6, Sorbonne Universite

Paris, France

Research Internship with Robin Lamarche-Perrin working on modular decomposition of link streams

Summer 2016

ACTIVITIES

- Core developer - NetworkX and Econ-ARK.
- Presented talks/tutorials at multiple international Python and data science conferences about my work. PyCon US [2019, 2018, 2017], SciPy US [2018, 2020], PyData [NYC 2018, 2017 - LA 2018 - London 2018 - Delhi 2018], McKinsey & Company, Belgium and more in Germany, Poland, Slovakia, Israel, India.
- TA for LINMA2710 - Scientific Computing(graduate course, UCLouvain, Spring 2019). Instructor of Introduction to Python (CTE, BITS-Goa, Fall 2015)
- Reviewer for ICSWM [2020, 2019], SciPy US [2018, 2019, 2020], PyCon US [2020], presented posters at WikiWorkshop (WWW 2018).
- Created content for subscribers of **DataCamp**.

EDUCATION

Birla Institute of Technology and Science

Goa, India

Master of Science in Mathematics

2013 - 2018

Bachelor of Engineering in Electronics and Instrumentation

2013 - 2018