



Goran JELIC-CIZMEK

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## WORK EXPERIENCE

### DEPARTMENT OF THEORETICAL PHYSICS, UNIVERSITY OF GENEVA

2021–present

POSTDOCTORAL RESEARCHER & SCIENTIFIC PROGRAMMER

- Designed and implemented the backend for the website of the non-profit organization Fautor using Django + REST Framework. Used Docker and Gitlab CI/CD for creating automated tests and deployment.
- Developed a Python package (available on [PyPI](#)) using NumPy, SciPy, and Matplotlib for performing statistical analyses using a Fisher matrix approach. Used Github Actions for automated testing and deployment of documentation, achieved 99% code coverage.
- Managed a team of 10 as part of the *Euclid* Consortium for the ESA *Euclid* mission. Performed the main statistical analysis using Bayesian methods for determining the impact of relativistic effects on the spectroscopic galaxy sample of *Euclid*.
- Held an online workshop *Using SSH for efficient remote work* as an invited speaker. Demonstrated efficient use of CLI tools such as Bash, SSH, and tmux for simplifying and automating workflows with remote machines.

## EDUCATION

### DEPARTMENT OF THEORETICAL PHYSICS, UNIVERSITY OF GENEVA

2017–2021

PHD IN PHYSICS

- Performed research in the field of theoretical cosmology, gained advanced analytical and quantitative skills. Authored 4 papers that appeared in peer-reviewed scientific journals.
- Performed statistical forecasts using Python and various numerical libraries (Pandas, NumPy, SciPy) for upcoming cosmological surveys (DESI, SKA 2)
- Developed an approximate mathematical model in cosmological galaxy clustering, which lead to a speed-up of a factor of 10000x compared to previous models. Implemented the model using the C programming language with documentation and tests. Created a high-level wrapper for the package using Cython (available on [PyPI](#)).
- Relevant courses: *Scientific computing and software design*, 2021 (5.0/6.0); experience in C++, shell scripting, Linux
- Extensive teaching experience in various undergraduate- and graduate-level physics courses

### FACULTY OF SCIENCE, UNIVERSITY OF GENEVA

2015–2017

MSC IN PHYSICS

## SKILLS

PROGRAMMING LANGUAGES	Python   Cython   C   C++   Bash   Wolfram Mathematica
TECHNOLOGIES	GNU/Linux   Github Actions   Gitlab CI   Docker   Git   LaTeX
FRAMEWORKS & LIBRARIES	Django   NumPy   SciPy   Matplotlib   Pandas
LANGUAGES	English (C2)   French (B1)   Croatian (native)
OTHER	scientific writing   theoretical modelling   Bayesian analysis

## OTHER

- Co-founder of Geneva-based non-profit organization Fautor
- Innosuisse Start-up Training Business Concept (Feb–Jun 2021 & Feb–Jun 2022)
- Swiss work permit
- EU passport

List of publications available at [InspireHEP](#)