

Nikos Pechlivanis, Ph.D.

Post-doc researcher • Bioinformatics engineer

DATA SCIENCE • BIOINFORMATICS • MACHINE LEARNING • DATA VISUALIZATION • SCIENTIFIC COMMUNICATION

SUMMARY

Post-doc researcher skilled in applying statistical modelling, next-generation sequencing (NGS) analysis, **machine learning techniques**, and **data visualisation tools** to generate meaningful insights from large-scale biological data. Experienced in using diverse platforms and tools, alongside bioinformatics pipelines for genomics, transcriptomics, and proteomics. **Recognised for coordinating research projects** (HORIZON), **with a proven ability to work both independently and collaboratively** in international, multidisciplinary teams. **Adept at clear scientific communication**, actively engaged in reproducible research practices and advanced data storytelling.

EXPERIENCE

European Bioinformatics Institute (EBI), European Molecular Biology Laboratory (EMBL), Hinxton, United Kingdom

Postdoctoral Fellow (ARISE2) // Mar 2026 – Present

(Reports to Senior Scientist)

- **ARISE2** Postdoctoral Fellow within the Protein Data Bank in Europe (PDBe) team

Institute of Applied Biosciences (INAB), Centre for Research and Technology Hellas (CERTH), Thessaloniki, Greece

Postdoctoral Associate, Bioinformatics Engineer // Apr 2025 – Feb 2026

(Reports to Senior Researcher)

- Manage and execute data-driven tasks for national and EU-funded research projects ([EVERSE](#), [MetaPlantCode](#)).
- Implement workflows for biodiversity, metagenomic and transcriptomic analyses.
- Liaise between the senior researcher, junior researchers and partner institutions to facilitate collaboration and project alignment.
- Oversee progress monitoring, deliverable tracking and documentation across multiple project streams.

Graduate Research Assistant, Bioinformatics Engineer // Jan 20 – Mar 25

- Designed and optimised reproducible bioinformatics pipelines using R and Snakemake.
- Curated, processed, and analysed high-throughput datasets for national and EU-funded projects.

TOOLS

- **Programming:** R, Python, Bash, Javascript, Typescript, HTML, CSS
- **R toolset:** data.table, tidyverse, fastverse, qqplot2, Quarto, R Shiny
- **Workflows:** Snakemake, Nextflow
- **Version control & Deployment:** Git, GitHub

OPEN SOURCE

- **TidyTuesday contributor:** custom visualizations for diverse datasets for reproducible and insightful data storytelling
- **Tools:** R, ggplot2

DISSEMINATION

- First-authored **3 peer-reviewed journal publications**
- Delivered **3 presentations at professional conferences**
- [Google Scholar profile](#)

- Coordinated the drafting and submission of research proposals, managing timelines and compliance requirements.
- Supervised and mentored up to 3 research assistants, delegating tasks and monitoring project milestones.
- Supported project management activities, including stakeholder communication, progress reports and dissemination of research outputs.

Undergraduate Research Assistant, Software Developer // Jul – Sep 2019

- Developed a 16S rRNA analysis pipeline using QIIME2 and Common Workflow Language (CWL).
- Automate workflows for data handling, tracking, and document management.

Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg

Undergraduate Research Assistant, Software Developer // Sep – Dec 2018

- Built a data analytics plugin for an Industry 4.0 visualisation platform (Grafana) for a pharmaceutical industry client.
- Applied TypeScript, JavaScript, HTML, and CSS in software development within a 3-member team.
- Delivered tailored solutions improving data visualisation and decision-making for the client.
- Collaborate with IT teams, computing facilities, and research units to ensure smooth system operations and project support.

EDUCATION

- **Ph.D. in Bioinformatics** // July 2020 – March 2025

Aristotle University of Thessaloniki, Thessaloniki, Greece

Ph.D. dissertation: “Innovative methods for analyzing large-scale biological data in Bioinformatics”

- **Dip. in Electrical & Computer Engineering** // October 2013 – October 2019

Aristotle University of Thessaloniki, Thessaloniki, Greece

Diploma dissertation: “Genomic data integration for facilitating machine learning applications”

- **Erasmus+ Studies** // February 2018 – July 2018

KU Leuven, School of Engineering, Belgium

LANGUAGES

English	Fluent
Greek	Native speaker
German	Intermediate