

# ALMIRA KONJIĆ

almira.konjic@gmail.com | +387 62 25 28 55  
ResearchGate | ORCID | LinkedIn | Google Scholar | GitHub

## Professional Summary

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Computational biologist and data scientist with PhD in Agricultural Sciences, specializing in bioinformatics pipeline development, statistical analysis of large-scale genomic datasets, and database management. Experienced in R programming, high-density SNP analysis, GWAS studies, and population structure assessment using advanced statistical methods. Proven track record in developing automated data processing workflows and supporting cross-functional research teams in complex data interpretation. Contributed to EU-funded projects with expertise in managing massive biological datasets, statistical modeling, and translating analytical insights for diverse stakeholders. Strong foundation in both biological domain knowledge and computational methods, with 15 scientific publications and extensive experience in data visualization and reproducible analysis workflows.

## Experience

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**Teaching Assistant**, University of Sarajevo, Faculty of Agriculture and Food Sciences Dec 2020 – Present

- Delivered Genetics and Plant Breeding courses; mentored students and supported curriculum
- Developed bioinformatics pipelines for SNP analysis and GWAS studies, automating processing of large genomic datasets
- Managed biological databases and statistical workflows for genetic diversity assessment
- Coordinated EU-funded projects with international stakeholders

**Project Manager**, P3 Diagnostics – Tuzla, Bosnia and Herzegovina Oct 2019 – Nov 2020

- Led planning and schedules for diagnostic projects; created timelines, tracked milestones, and resolved risks with cross-functional teams.
- Coordinated internal/external stakeholders (technical + executive), prepared status reports, and aligned scope to objectives.
- Drove onboarding/training sessions and documentation to support smooth handover into routine use.

**Intern**, Ministry of Agriculture, Water Management and Forestry of Tuzla Canton Sep 2018 – Sep 2019

- Supported project administration, stakeholder communications, and formal reporting for program implementation.

**Education** (University of Sarajevo, Faculty of Agriculture and Food Sciences, Bosnia and Herzegovina)

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**Ph.D. in Agricultural Sciences** – Bioinformatics, Plant Genomics Oct 2021 – Feb 2025

*Thesis: Using High-density DNA markers to construct pedigree networks and analyze genomic associations in apple germplasm in Bosnia and Herzegovina*

Mentors: Prof. dr Fuad Gaši; Prof. dr Jasmin Grahić

**Master's Degree** – Plant Protection Oct 2015 – May 2018

*Thesis: Investigation of the Reliability of Cucumber Disease Forecasting Model and Possibility of its Introduction in VIPS Forecasting System*

**Bachelor's Degree** – Plant Production Oct 2012 – Sep 2015

*Thesis: Estimation of Secondary Infection Outbreaks of Apple Scab "Venturia Inaequalis" in Integrated Production System*

## Skills

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**Programming:** R (Advanced), Python, Pipeline Development, Database Management, Linux/Shell Scripting, Git

**Statistical Analysis:** GWAS, Population Genetics, SNP Analysis, Statistical Modeling, Machine Learning, Data Visualization

**Data Management:** Large-scale Datasets, Database Design, Quality Control, Reproducible Workflows

**Domain:** Genomics, Molecular Biology, Experimental Design, Cross-functional Collaboration

**Languages:** Bosnian (Native), English (C2), Italian (B1), German (B1)