

# ELMA HOT DERVIC M.SC.

ELECTRICAL ENGINEER  
DATA SCIENTIST

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I am a postdoctoral researcher at the Medical University of Vienna. I am really excited about the possibilities which Network Science and Data Science offer.

I am a passionate traveler, book lover, and coffeeholic.



## EDUCATION

### Ph. D. degree / January 2019 - January 2023

Medical University of Vienna - The Section for Science of Complex Systems (MedUni Wien): Ph.D. research on "Modelling dynamical comorbidity networks from longitudinal health-care data"

### Research stay / September 2017 - January 2018

Technical University of Vienna (TU Wien) in the field of Data Mining granted by Österreichischer Austauschdienst - OeAD

### Master (M.Sc.) degree / October 2015 - April 2017

University of Montenegro - Faculty of Electrical Engineering Podgorica, M.Sc. research on "Clustering and visualization of data using data mining techniques and spatial interpolations" - average mark: 10 out of 10 (A)

### Specialist (Spec.Sci.) degree / September 2014 - September 2015

University of Montenegro - Faculty of Electrical Engineering Podgorica, course: Computer Engineering - average mark: 9 out of 10 (A)

### Bachelor (B.Sc.) degree / September 2011 - September 2014

University of Montenegro - Faculty of Electrical Engineering Podgorica

## WORK EXPERIENCE

### Medical University of Vienna / PostDoc

February 2024 - Now

I am a postdoctoral researcher at the Medical Data Science Center (Section for Science of Complex Systems). I am working mainly on modeling dynamic comorbidity networks from longitudinal healthcare data.



## **Complexity Science Hub & The Supply Chain Intelligence Institute Austria / PostDoc**

February 2023 - February 2024

I am a postdoctoral researcher at the Complexity Science Hub Vienna. Currently, I am working with medical data on unraveling disease trajectories. Additionally, I am working on trading data to analyze systemic risk in supply chains.

## **Medical University of Vienna & Complexity Science Hub / Researcher**

January 2019 - January 2023

I am a PhD candidate at the Section for Science of Complex Systems at the Medical University of Vienna and the Complexity Science Hub Vienna. I am working on the identification of sex-specific multimorbidity patterns from high dimensional medical datasets.

## **BeeAnd.me / Co-founder and CEO**

January 2017 - December 2018

I co-founded a venture-funded BeeAnd.me startup, and I was at the CEO position during this period. BeeAnd.me is smart IoT monitoring system with a clear goal to help beekeepers overcome the traditional challenges of beekeeping by providing beekeepers with technological assistance (IoT and AI).



## **BIO-ICT Centre of Excellence in Bioinformatics / Junior Researcher**

April 2016 - April 2017

I was developing the first digital pedologic information system of Montenegro based on the pedologic database. I was in charge of preprocessing, analysis, and visualization of the dataset. I was working on different machine learning algorithms to develop predictive models for agriculture and sea monitoring.

## **Faculty of Electrical Engineering Podgorica / Internship**

October 2015 - March 2016

## **Net research experience**

18 months Junior Researcher - before PhD

4 years PhD Student

22 months PostDoc

## **PROFESSIONAL AND PERSONAL SKILLS .....**

R	●●●●●●	Latex, Microsoft Office, Maple	●●●●●●
MySQL, SQLite, PostgreSQL	●●●●●●	Data cleaning, modeling, mining	●●●●●●
C, C++, Java	●●●●●●	Gephi	●●●●●●
Python, Matlab	●●●●●●	JavaScript	●●●●●●
Github	●●●●●●	Plotly, Shiny,	●●●●●●
Linux	●●●●●●	Maple, Octave, SPSS	●●●●●●
HTML / CSS	●●●●●●	ShinyApp	●●●●●●
PHP	●●●●●●	AutoCAD	●●●●●●

## LANGUAGES .....

English



Montenegrin / Serbian/

Bosnian / Croatian



German - B1



Complex problem solving



Critical thinking



Innovation / creativity



Teamwork



## PUBLICATIONS .....

### Nature Human Behaviour - November 2020.

Haug, N., Geyrhofer, L., Londei, A. et al. Ranking the effectiveness of worldwide COVID-19 government interventions.

### npj Digital Medicine - March 2024

Elma Dervic, Johannes Sorger, Liuhuaying Yangand, Michael Leutner, Alexander Kautzky, Alexandra Kautzky-Willer, Stefan Thurner, Peter Klimek. Unraveling cradle-to-grave disease trajectories from multilayer comorbidity networks.

## VOLUNTEER EXPERIENCE .....

### Montenegrin Artificial Intelligence Association / Co-founder

September 2022 - now

### Association of Students of Electrical Engineering Europe EESTEC - Local Committee

Podgorica / Chairwoman

Member 2011 - 2017 / Chairwoman - October 2014 - October 2015

### Board of European Students of Technology BEST - Local Committee Podgorica /

Member 2016 - 2017

## AWARDS AND GRANTS .....

Life Sciences Research Awards Austria 2024 in the category Excellence and Social Impact

September 2024 / supported by BMAW - Federal Ministry of Labour and Economy

Dora Brücke-Teleky Award Winners 2024 - 2nd Place

November 2024 / Alumni Club der Medizinischen Universität Wien

Österreichischer Austauschdienst (OeAD) grant / Researcher

September 2017 - January 2018

A grant for pre-Ph.D. in the field of Data Mining on Technical University of Vienna

World Summit Award (WSA) championship / 2018 / Co-founder of BeeAnd.me

The best WSA e-commerce solution for 2018.

CESA 2018 award / 2018 / Co-founder of BeeAnd.me

The best IoT startup in Austria for 2018.