

# ELMA HOT DERVIC M.SC.

ELECTRICAL ENGINEER  
DATA SCIENTIST

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about.me

I am a Ph.D. student at the Medical University of Vienna and a resident scientist at the Complexity Science Hub Vienna. I am really excited about the possibilities which Data Science offers.

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

## EDUCATION

### **Ph. D. degree / January 2019. - now**

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 2014. - April 2016.**

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 & Complexity Science Hub / Researcher

January 2019. - now

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. Results may allow a better understanding of disease progression, and the discovery of new predictors for diseases.

### 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 2017.

### Innes Institute Vienna / Program director, mentor


August 2019./ August 2020.

I was mentoring students from Europe and Mexico during my course "Prototyping in IoT - Creative Engineering" to develop and present problem-solving IoT solutions.

## PROFESSIONAL AND PERSONAL SKILLS .....





R, Matlab		Tableau	
MySQL, SQLite, PostgreSQL		Latex, Microsoft Office, Maple	
C, C++, Java		Data cleaning, modeling, mining	
Python		Gephi	
Github		NoSQL	
Android, Arduino IDE		JavaScript	
Linux		Plotly	
HTML / CSS		Maple, Octave, SPSS	
PHP		ShinyApp	
WEBstorm		AutoCAD	

## LANGUAGES .....

English 

Montenegrin / Serbian  
/Bosnian / Croatian 

German 

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.

<https://doi.org/10.1038/s41562-020-01009-0>

### **Nature Scientific Data - August 2020.**

Desvars-Larrive, A., Dervic, E., Haug, N. et al. A structured open dataset of government interventions in response to COVID-19.

<https://doi.org/10.1038/s41597-020-00609-9>

## VOLUNTEER EXPERIENCE .....

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

Member 2016. - 2017.

## AWARDS AND GRANTS .....

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.

Deutsche Telekom NB-IoT program winner / 2017 / Co-founder of BeeAnd.me

Top 6 science startups - Pioneers 2017 Vienna / 2017. / Co-founder of BeeAnd.me