

Ivo Ugrina

A DATA SCIENTIST LOOKING FOR NEW (REMOTE) CHALLENGES

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Intro

I am a data scientist with an MSc in Computer Science and Mathematics and a PhD in Mathematics (Probability and Statistics). I have more than 10 years of experience working on data analysis within large scale quantitative projects and an international track record of excellence in academia and industry. Over time, I have obtained

- Strong fundamentals of statistics and machine learning (regression, classification, clustering, ...)
- Strong fundamentals in computer science (programming languages, programming paradigms, algorithms, software design, ...)
- Strong algorithmic problem-solving skills
- Strong coding abilities
- Strong verbal, visual and written communication skills to educate and work with cross functional teams
- Experience manipulating large data sets in practice
- Experience with designs of experiments
- Experience with many programming languages: C/C++, Python, R, Scala, ...
- A willingness to learn, share, and improve
- Ability to drive projects

Experience

University of Split, Faculty of Science

Split, Croatia

ASSISTANT PROFESSOR

Mar. 2017 -

- Lecturer in applied and theoretical probability, statistics and machine learning

NVTEH LTD

Zagreb, Croatia

CO-FOUNDER AND CEO

Nov. 2016 -

- One of the co-founders of the company
- Senior Solutions Architect

MapMyGut (MAPMYSELF LTD.)

London, United Kingdom

CO-FOUNDER AND HEAD OF IT AND BIOINFORMATICS

Mar. 2016 - Aug. 2017

- One of the co-founders of the company
- In charge of developing internal architectures, software, processes and models for Bioinformatics (R&D) and IT

King's College London

London, United Kingdom

VISITING LECTURER

Oct. 2015 - Sep. 2017

- Working on development and applications of computational and statistical methods for Microbiome and Glycomics data in the Department of Twin Research

University of Split, Faculty of Science

Split, Croatia

ADJUNCT ASSISTANT PROFESSOR/LECTURER

Sep. 2014 - Mar. 2017

- Lecturer in courses at the graduate level: Probability, Statistics, Stochastic processes

University of Zagreb, Faculty of Pharmacy and Biochemistry

Zagreb, Croatia

RESEARCHER

Sep. 2016 - Dec. 2016

- A short term (3 months) contract on applications of computational and statistical methods within the Centre for excellence in personalized medicine group/project.

University of Zagreb

Zagreb, Croatia

EXPERIENCED RESEARCHER

May. 2015 - Sep. 2016

- Working on the development and applications of computational and statistical methods in Omics research
- A member of the INTEGRA-LIFE EU-FP7 research project

Genos Ltd.

HEAD OF DATA ANALYSIS

Zagreb, Croatia

Feb. 2014 - Jun. 2016

- Working on the development and applications of computational and statistical methods
- A member of MIMOmics and Pain-Omics EU-FP7 Research Projects

University of Zagreb, Faculty of Science, Department of Mathematics

TEACHING AND RESEARCH ASSISTANT

Zagreb, Croatia

Feb. 2009 - Jan. 2014

- A member of research groups in Probability, Statistics and Computer Science.
- Worked on an industry lead project on the development of a geo-spatial aware web search engine
- Scientific work was based on the intersection of computer science and statistics

Department of Mathematics, Faculty of Science, University of Zagreb

IT SUPPORT

Zagreb, Croatia

Oct. 2005 - Oct. 2007

- Member of the IT support team for students working on GNU/Linux, Windows and Unix operating systems

Education

University of Zagreb, Faculty of Science

PHD IN MATHEMATICS

Zagreb, Croatia

February 2009 - March 2014

- As a member of research groups in Probability, Statistics and Computer Science

University of Zagreb, Faculty of Science

MSc IN MATHEMATICAL STATISTICS AND COMPUTER SCIENCE

Zagreb, Croatia

October 2001 - September 2008

Research and Science Related Activities

Projects

A MEMBER OF EU FUNDED RESEARCH PROJECTS MIMOMICS, PAIN-OMICS, INTEGRA-LIFE

- Working on development and applications of computational and statistical methods in Omics research

Publications

ORCID: [HTTP://ORCID.ORG/0000-0002-9882-2250](http://ORCID.ORG/0000-0002-9882-2250)

RESEARCHGATE: [HTTPS://WWW.RESEARCHGATE.NET/PROFILE/IVO_UGRINA](https://WWW.RESEARCHGATE.NET/PROFILE/IVO_UGRINA)

- Author/Co-author of scientific papers, book chapters and conference proceedings in fields of Statistics, Biomedicine and Computer Science

Software

A DEVELOPER, PROJECT LEADER AND CONTRIBUTOR TO OPEN-SOURCE/LIBRE RESEARCH SOFTWARE

- A contributor to the R Project for Statistical Computing (both to the R-core and as a developer of R-packages)
- A contributor to Microbiome related software (QIIME and AmericanGut)

Visiting Scientist

SELECTED INSTITUTIONS

- Department of Twin Research, King's College London, London, UK
- Institute of Computational Biology, Helmholtz Zentrum München, Germany
- Statistical Genetics Department, Leiden University Medical Center, Leiden, Netherlands

Conferences and Summer Schools

ORGANIZATION OR ACTIVE PARTICIPATION (SELECTED)

- Co-organizer and one of the project leaders in the Research Summer School in Statistical Omics (Split, Croatia)

Statistical community

ACTIVELY PARTICIPATING IN DOMESTIC AND INTERNATIONAL STATISTICAL COMMUNITIES

- As a member of the Croatian Statistical Association, a reviewer for academic and non-academic journals and a co-organizer of academic and non-academic conferences, meetings and user groups

Activities Related to IT

Roles

SYSTEM ARCHITECT, DEVELOPER, QA, MANAGER

- Worked on different roles in the IT industry, both as an academic and a non-academic

Technical Skills

SKILLED IN MULTIPLE PROGRAMMING LANGUAGES, OSES AND IT PROCESSES

- Familiar with Windows, GNU/Linux and UNIX operating systems. Administrating GNU/Linux based servers from 2002 (Apache, MySQL, PostgreSQL, Bind, OpenVPN, KVM, Docker, etc.).
- At the moment primarily an R and Python user. Worked professionally with C/C++, PHP, Scala. Familiar with other languages (like Haskell, Lua, ...) to a lesser extent
- Familiar with CD/CI tools and processes
- Familiar with Cloud technologies. Certified AWS Solutions Architect (Associate)
- Familiar with modern container based technologies (e.g. Docker)

Projects

WORKED ON MULTIPLE SOFTWARE PROJECTS (PROPRIETARY AND OPEN SOURCE)

- maline – <https://github.com/soarlab/maline> – a free software Android malware detection framework
- R – <https://www.r-project.org/> – Developing and improving different aspects of the R language and R packages (e.g. R core - <https://stat.ethz.ch/R-manual/R-devel/library/stats/html/SignRank.html>)
- ...

Computer Science communities

ACTIVELY PARTICIPATING IN DOMESTIC AND INTERNATIONAL COMPUTER SCIENCE COMMUNITIES

- As a reviewer for both academic and non-academic journals, a co-organizer of academic and non-academic conferences, meetings and user groups, a contributor to non-academic Open-Source/LIBRE software

Extracurricular Activity

Interests

TRAVELLING, EXPERIENCING NEW CULTURES, TALKING WITH NEW PEOPLE, EXPLORING MUSIC AND PLAYING SPORTS