

John Zobolas

My background is in computer science, with diverse expertise in computational modeling, software engineering, survival analysis and statistical/machine learning. Being **an engineer at heart**, my strongest quality is careful, analytical thinking.

A productive workday consists of writing **clean, test-driven software** and producing **explainable data visualizations** to drive my research.

I spend my free time playing the piano, juggling or reading books.

 Download this resume in [PDF](#).



Education

2021
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2017

- **Norwegian University of Science and Technology (NTNU)**
PhD in Medical Technology / Computational Biology
 Trondheim, Norway

Thesis: Software implementations allowing new approaches toward data analysis, modeling and curation of biological knowledge for Systems Medicine
[[GitBook link](#) ] [[Defence video](#) ] [[Results](#)] [[Diploma](#)]

2015
|
2013

- **Athens University of Economics and Business (AUEB)**
MSc in Computer Science
 Athens, Greece

Thesis: SkyLighting Web Application with three.js [[GitHub link](#) ]
Diploma grade: 9.4/10 [[Diploma](#)] [[Transcript](#)]

2013
|
2007

- **National Technical University of Athens (NTUA)**
M.Eng in Electrical and Computer Engineering
 Athens, Greece

Thesis: Optimal Power Allocation in the uplink of Two-Tier Wireless Femtocell Networks [[GitHub link](#) ]
Diploma grade: 8.4/10 [[Diploma](#)] [[Transcript](#)]

Professional Experience

2024
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Jan 2022

- **Postdoctoral Researcher in Clinical AI**
Oslo University Hospital
 Oslo, Norway
 - **Project:** PANCAIM - pancreatic cancer AI for genomics and personalized medicine [[website](#)]
 - Benchmarking survival ML models using multi-omics data

April 2021
|
Jan 2021

- **Internship in Molecular AI group**
AstraZeneca
 Gothenburg, Sweden
 - **Project:** Predicting bioactivity data using Matrix Factorization for target-based clustering and validation

Contact Info

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 [Google Scholar](https://scholar.google.com/citations?user=000000021348482X&hl=en)
 [ResearchGate](https://www.researchgate.net/profile/bblodfon)
 +47 96808973
 +30 6936586236

Skills

-  R
 tidyverse
 mlr3
 Javascript
 HTML/CSS
 Java
 Python
 Git

- July 2018
- **Research stay in Molecular Interactions Team**
European Bioinformatics Institute  Hinxton, England
 - Project: Extending the PSICQUIC Java-based Web service platform to include causality information of molecular interactions
- 2015
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2013
- **Linux Systems Engineer and Database Performance Tester**
Commsquare  Athens, Greece
 - Linux admin/support/database performance tuning

Teaching

- Nov 2022
- **Machine Learning course for Cancer Researchers**
I gave 4 lectures on the following topics:  Oslo, Norway
 - Classification trees and model ensembles [[slides](#)]
 - Support Vector Machines [[slides](#)]
 - Neural Networks [[slides](#)]
 - Benchmarking ML models using the spam dataset [[GitBook link](#) 

Selected Talks

- Oct 2022
- **AI pitch: An example ML survival workflow**
8th Annual NORBIS conference [[slides](#)]  Rosendal, Norway
- Aug 2022
- **Reproducible Science**
Logical modeling course BI8040 (NTNU) [[slides](#)]  Trondheim, Norway

Selected Publications

- 2023
- **Fine tuning a logical model of cancer cells to predict drug synergies: combining manual curation and automated parameterization**
[Frontiers in Systems Biology](#)
- 2022
- **Boolean function metrics can assist modelers to check and choose logical rules**
[Journal of Theoretical Biology](#)
- 2021
- **CausalBuilder: bringing the MI2CAST causal interaction annotation standard to the curator**
[Database](#)
- 2020
- **UniBioDicts: Unified access to biological dictionaries**
[Bioinformatics](#)
- 2019
- **CausalTAB: the PSI-MITAB 2.8 updated format for signalling data representation and dissemination**
[Bioinformatics](#)

 Books

- 2021 • **8 Rules to write a PhD Thesis: A PhD Thesis Rulebook**
[Online GitBook](#) 

 Awards/Scholarships

- 2013 • **Program Study with Scholarship, EqualSociety**
Scholarship for the MSc in Computer Science (AUEB)
- 2007 • **Program Great Moment for Education, Eurobank**
Award for the highest grade in the Panhellenic examinations

 Recreational Activities

- **Piano**  
- **Juggling** 
- **Fitness** 