

Elio Nushi

CONTACT & PERSONAL INFORMATION

Address: Pietari Kalmin katu 5, Exactum B211, Helsinki, Finland, 00560
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Website: enushi.github.io
Date of Birth: 05 August 1993
Nationality: Albanian

EDUCATION

University of Helsinki (UH), Helsinki, Finland

PhD, Computer Science Sep. 2020 - Present

- Research Topic: I am developing probabilistic and statistical methods for computational biology. One important goal of the research is to understand the regulation of toxin production in the potentially deadly environmental pathogen *Clostridium botulinum*.
- Supervisor: Antti Honkela, PhD, University of Helsinki

Åbo Akademi University (ÅAU), Turku, Finland

MPhil, Computer Science, GPA: 5.0/5.0 Aug. 2018 - Jun 2020

- Master's Thesis Title: *On the Applicability of Network Science in Personalized Medicine*
- Supervisors: Ion Petre, PhD, University of Turku & Eugen Czeizler, PhD, Åbo Akademi University

University of New York Tirana (UNYT), Tirana, Albania

BSc, Computer Science, GPA: 3.8/4.0 Sep. 2013 - Jun. 2017

- Senior Project's Title: *On the performance of Linux Operating System under XEN, Oracle VM VirtualBox and VMware Player Hypervisors*
- Adviser: Marenglen Biba, PhD, University of New York Tirana

RESEARCH & WORK EXPERIENCE

Doctoral Researcher

University of Helsinki, Helsinki, Finland Sep. 2020 - Present

Supervisor: Antti Honkela, PhD, University of Helsinki

- Develop probabilistic and statistical methods for computational biology

Software Developer

If P&C Insurance Ltd, Turku, Finland Aug. 2019 - Jul. 2020

- Worked as a full stack C#.Net developer
- Responsible for maintaining and developing the Nordic customer insurance portal of the company

Software Developer

FCE Services, Tirana, Albania Oct. 2017 - Jul. 2018

- Worked as PHP Back-End Developer for a client company
- Responsible for managing e-commerce websites using the Magento platform

Software Developer

Protech, Tirana, Albania May 2017 - Oct. 2017

- Developed the billing system software for a VoIP company using PHP and JavaScript
- Automated the process of generating soft switch (Asterisk) configurations for VoIP clients to help the NOC department

Teaching Assistant

Probabilistic models, variational inference and probabilistic programming -
Nordic ProbAI School 2022, Helsinki Jun. 2022

Data Analysis with Python -
University of Helsinki, Helsinki Nov. 2021 - Aug. 2022

	Algorithms and Complexity - University of New York Tirana, Tirana	Feb. 2017 - Jun. 2017
	Calculus II - Univeristy of New York Tirana, Tirana	Feb. 2016 - Jun. 2016
	Discrete Mathematics - University of New York Tirana, Tirana	Sep. 2016 - Feb. 2017
	Calculus I - University of New York Tirana, Tirana	Feb. 2015 - Jun. 2015
DATA SCIENCE PROJECTS	<ul style="list-style-type: none"> • Project on predicting true vs fake news titles (Advanced Machine Learning) • Project on applying centrality methods for personalized medicine (Master's Thesis) • Project on applying statistical methods for multiple myeloma patients' dataset (Lab Internship) • Project on the study of genes connected with autism (Computational Biology) 	
COMPUTER SKILLS AND COMPETENCES	<ul style="list-style-type: none"> • Programming languages and frameworks: Python, Django, Java, Java Server Faces (JSF), VB.NET, C#.NET, ASP.NET, PHP, JavaScript, HTML, CSS, Bootstrap, and PL SQL • Database systems: Oracle, MySQL, SQLite, and Microsoft SQL Server • System administration: Linux Server Configuration, set up and configure computer network devices 	
PERSONAL RESEARCH FUNDING AND SCHOLARSHIPS	<ul style="list-style-type: none"> • Four year funding from the Helsinki Institute of Information Technology (HIIT) Sep. 2020 - Sep. 2024 • Scholarship consisting of full tuition fee waiver and excellence award to cover the living expenses during my master's studies from Åbo Akademi University (ÅAU) Aug. 2018 - Jul. 2020 	
PUBLICATIONS	Book Chapters	
	1. Network Modelling Methods for Precision Medicine (Nushi, Elio et al., <i>Systems Biology Modelling and Analysis: Formal Bioinformatics Methods and Tools</i>)	
CONFERENCES & WORKSHOPS	Workshops	
	1. Attended Oxford Machine Learning Summer School (OxML 2022), ML x HEALTH, Oxford, UK	Aug. 2022
LANGUAGES	<ul style="list-style-type: none"> • Albanian: Native • English: Fluent • Italian: Fluent • French: Moderate 	
EXTRA- CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> • Volunteer member in the organizing committee of ProbAI 2022 summer school • University of Helsinki student ambassador • Member of the Albanian Mathematical Association • Sports: Gym, Judo, Swimming • Music: Play Violine 	<p>Jan. 2022 - Present</p> <p>Sep. 2015 - Present</p>