

SARVAR ABDULLAEV

s-abdullaev.github.io ◊ s.abdullaev@inha.uz ◊ +998-97-3441136

EDUCATION

King's College London (UK), PhD in Computer Science	2011-2016
Dongguk University (S.Korea), MSc in Computer Science (GPA - 4.38/4.5)	2007-2009
University of Westminster (UK), BSc in Business Computing (2:1)	2003-2006

EXPERIENCE

Inha University in Tashkent 2016-Present
Associate Professor

- Taught courses such as Intro to Computer Science, Game Theory, Creative Engineering Design, Databases, Java Programming. Overall course evaluation result is above 90%.

New Uzbekistan University 2022-Present
Adjunct Professor

- Designed the curriculum of Computer Science program, participated in faculty recruitment, arranged 3D printing and VR/AR labs at the university campus. Taught **Nand2Tetris** and Interaction Design courses.

King's College London 2014-2015
Teaching Assistant

- Conducted tutorials on Intro to Artificial Intelligence, Data Structure and Practical Programming.

Westminster International University in Tashkent 2009-2011
Lecturer

- Taught courses such Software Engineering, Web Programming and Business Information Systems.

cBizSoft, Inc 2008-2023
Software Developer (Remote)

- Developed Exelare ATS from scratch using .NET and Angular technologies. It pulls resumes and jobs from Monster, CareerBuilder, Indeed, Dice, Fieldglass and matches them by extracted skills and qualifications.

STARTUP CO-FOUNDER

AmudarIO 2020-Present

- Agritech startup in Uzbekistan which specializes in manufacturing weather stations, pheromone traps, phytotrons and climate control systems for greenhouses.
- It develops hardware and software solutions for forecasting the pest outbreaks using data from smart pheromone traps and weather stations.
- Startup has raised \$40K in pre-seed funding and more than \$100K in the first round of seed funding. It manages more than 100 weather stations across Uzbekistan now.

SELECTED PROJECTS

Energy Efficient Climate Monitoring System for Greenhouses 2024

- Designed a sensor network for monitoring the use of natural gas while heating greenhouses; analysed the impact of solar radiation, outdoor/indoor temperature and humidity, wind speed, ventilation to the heating efficiency; generated operational recommendations. Funded by CGIAR.

Interpolation of Air Pollution in Tashkent 2023

- Designed and deployed 10 air pollution stations across the city; analysed the impact of urban traffic, wind speed and other climate data on pollutant concentrations such PM1.0, PM2.5 and PM10.0. Funded by Tashkent Municipality.

Pest Outbreak Prediction in Ferghana Valley 2020-2022

- Designed and deployed more than 30 agro-weather stations and 12 smart pheromone traps across Ferghana valley; implemented moth counting model and used its data to determine biofix date for degree-day computation of moth's development stage. Funded by UN ACCRF Project.

OTHER CONSULTANCY WORK

Tahrirchi: Spellchecker for Uzbek language 2020 - 2024

- Supervised the development of a spellchecking model for Uzbek language (belongs to the family of Turkic, agglutinative languages) using technologies such as Foma, BERT and Gector.

Covid-19 Challenge 2020

- Facilitate start-ups for battling the social and the economical consequences of Covid-19 in Uzbekistan. Delivered speech on network epidemiology and served as an expert in discussion panel.

Pest Outbreak Notification System 2018

- Developed a software solution for early notification of farm owners on the outbreak of diseases and pests. The solution has been successfully deployed in Turakurghan district of Namangan region, Uzbekistan

Open Data Challenge 2016-2020

- Facilitated the organization of annual event aimed at promoting the use of open data among developers; conducted workshops and tutorials on ML; mentored participants in their projects.

AWARDS

IsDB Scholarship for Sustainable Agriculture 2022

Best Paper Award in BigDAS 2017

Winner of TechCrunch Disrupt Hackathon (London, UK) 2014

IsDB Merit Scholarship for High Technology 2011

Global Korea Scholarship 2007

3rd place in ICPC in Uzbekistan 2005

SKILLS

Programming C#, Angular, Python, Laravel/PHP, Java, SQL, Flux, Arduino/C++
NetLogo, R, MATLAB, AMPL, \LaTeX

Mathematics Calculus, Probability, Statistics, Linear Algebra, Discrete Math,
Integer Linear Programming, Differential Equations, Game Theory

TRAINING

Deep Reinforcement Learning, EEML Summer School, Warsaw 2020

Bayesian Machine Learning, DeepBayes Summer School, Moscow 2018

Entrepreneurship for Scientists, Enterprisers Summer School, Cambridge 2012

SELECTED PUBLICATIONS

- S. Abdullaev, P. McBurney, K. Musial-Gabrys, Pricing Options with Portfolio-holding Trading Agents in Direct Double Auction, *Frontiers in Artificial Intelligence and Applications* 285, pp. 1754–1755, 2016
- S. Abdullaev, P. McBurney, K. Musial-Gabrys, Emergence of Option Prices in Markets Populated by Portfolio-Holders, *In Proc. of 2nd European Workshop on Chance Discovery and Data Synthesis*, Hague, Netherlands, September 2016
- S. Abdullaev, P. McBurney, K. Musial-Gabrys, Direct Exchange Mechanisms for Option Pricing, *Lecture Notes in Computer Science* 8953, pp. 269–284, 2015
- S. Abdullaev, Ko I.S., Na Y.J., An Optimization of CDN using Efficient Load Distribution and RADS Caching Algorithm, *Journal of Universal Computer Science*, Vol. 14, No. 14, pp. 2329-2342, 2008
- S. Abdullaev, Ko I.S., A study on the aspects of successful business intelligence system development, *Lecture Notes in Computer Science* 4490, LNCS(PART 4), pp. 729–732, 2007