# Rashid Bakirov

Data scientist, software developer and researcher with 10 years experience in industry and academia. 

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## **SKILLS**

## **MACHINE LEARNING**

Classification

Regression

Clustering

Stream learning

Image recognition / Object detection

Deep Neural Networks

TensorFlow

Anomaly detection

Reinforcement learning

Data visualisation

#### **PROGRAMMING**

Python (numpy, pandas, matplotlib, seaborn, scikit-learn, scipy, TensorFlow)

Matlab

Java

SQL

R

 $\mathbb{C}/\mathbb{C}++$ 

C#

#### **SOFTWARE**

Spark and Hadoop

Oracle Data Mining

Weka

Git and Github

Microsoft SQL Server

MongoDB

Agile development

# **LANGUAGES**

English

German

Russian

Azerbaijani

## **PROFESSIONAL**

#### **MEMBERSHIPS**

International Neural Network Society British Computing Society Fellow of Higher Education Academy

#### **REVIEWER**

IEEE Transactions on Neural Networks and Learning Systems

Neural Computing and Applications journal

WWW and IJCNN conferences

## **FDUCATION**

#### **BOURNEMOUTH UNIVERSITY** | PHD IN MACHINE LEARNING

Apr 2012 - Jan 2017 | Poole, UK

- Thesis: "Multiple Adaptive Mechanisms for Predictive Models on Streaming Data".
- Research in adaptive predictive models for non-stationary data streams with the consideration of temporal aspects.
- Developing a novel adaptive local ensemble method for regression, using linear predictors, Bayesian combination, forgetting and on-line update.
- General analysis of adaptive models, ranging from high level complex adaptive systems to specific machine learning algorithms.

# UNIVERSITY OF SIEGEN | DIPL.-INF. (BSc+MSc) IN COMPUTER

SCIENCE AND ELECTRICAL ENGINEERING

Oct 2004 - Dec 2009 | Siegen, Germany

## **EXPERIENCE**

## **BOURNEMOUTH UNIVERSITY** | Lecturer in Computing

Since Sept 2017 | Poole, UK

- Program Leader for BSc Hons Data Science and Analytics; coordinating modules, providing leadership and support to the academics and the students.
- Module leader for Data and Databases (BSc) Data Management, Advanced Data Management, Data Processing and Analytics (all MSc); designing courses and assessment, giving lectures, coordinating unit teams.
- Supervision of PhD, MRes, MSc and BSc projects.
- Research into adaptive machine learning, object recognition and applications of ML in sports and culture.
- Bids for internal and external research funding as Principal and Co-investigator. Summarily awarded £180,000.

## **BOURNEMOUTH UNIVERSITY** | RESEARCH ASSISTANT

Oct 2015 - Jun 2017 | Poole, UK

- Design of DigTrace, the software for the creation and analysis of 3D footprint images using Python. Leading the development of DigTrace.
- Contribution to the resulting publication.

## **BOURNEMOUTH UNIVERSITY** | SOFTWARE DEVELOPER

Oct 2015 - Jun 2017 | Wroclaw, Poland

- Implementing adaptive stream learning algorithms for INFER predictive software using Java and Eclipse Modeling Framework.
- Participation in the Agile development process, with daily SCRUM meetings and usage of JIRA for tasks and bugs.

## PRICEWATERHOUSECOOPERS | CONSULTANT

Apr 2011 - Mar 2012 | Stuttgart, Germany

- Insurance fraud and inconsistencies detection using SQL, Excel and R.
- Analysis of customers' financial data using SAP and Excel and reporting.

#### UNIVERSITY OF SIEGEN | RESEARCH ASSISTANT

Jun 2010 - May 2011 | Siegen, Germany

- Developing various image processing software using LabView and C/C++.
- Presenting results to internal and external stakeholders.