Tansel Arif

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Skills

Programming TSQL, C++, C#, Delphi, R

General Numerical computing, Modeling and simulation of fluid mechanics and thermodynamics, Strong ad hoc problem solving

Languages English (native), Turkish (fluent)

Work and Teaching Experience

2015 - present FIS - Financial Consultant in Risk and Compliance, UK.

Previously SunGard Financial Systems. A vendor providing solutions to financial corporations in terms of risk and exposure management and financial regulatory compliance. My role mostly involves:

- Maintenance, optimisation and troubleshooting of test farms / servers / databases which clients use for test cases for product development using Delphi and T-SQL (Microsoft SQL Server).
- Providing code changes and detailed instructions for the deployment of packages on to live banking systems
- Finding and carrying out optimisations and fixes to these environments
- Liaising and working with clients for the improvement and customisation of the product to suit their needs
- Implementing code changes (Pascal/C#) to improve or fix issues in calculation methodology/equations
- Customisation of the user facing web code to suit the needs and requirements of users (Javascript/C#)
- Writing documentation for any new features provided for the client
- Coding and producing independent support utilities to improve client satisfaction
- Aiding fellow colleagues in any stopping issues they may have

2011 - 2015 **Private tutor**, UK.

On average 8-12 hours a week of private tuition in mathematics.

Education

2011 - 2015 PhD in Materials Sience and Engineering, Imperial College London, UK. Supervisor: Dr. R. Qin

2009 - 2010 Masters in Mathematics (MSci First Class), Queen Mary University of London, UK. Supervisor: Prof. P. Cameron

2006 - 2009 Bachelor's degree in Mathematics (First Class), Queen Mary University of London, UK.

2005 - 2006 Access to Science and Maths (60 credits at level 3, Modules: Maths, Physics, IT, Chemistry, Biology, English), Lewisham College, UK.

Research Experience

2011 - present Imperial College London, UK.

The main focus during the course of my PhD research has been on the development of theory and code for the phase-field modelling and simulation of microstructures found in steel [1,2] as well as the formation of van der Waals fluids using the smoothed particle hydrodynamics method. Given my interest in the prediction of general evolutionary phenomena, I have collaborated on cellular automata treatment for solidification [3]. My final results involve the development of tools in order to combine the capabilities of multiple models to deal with situations involving fluid flow, solidification and solid state phase transformations.

Queen Mary University of London, UK. 2009 - 2010

I investigated the pure mathematical constructions of codes in coding theory. The work involved writing code and alternative proofs for some known codes.

Awards and Professional Training

- August 2017 Inferential Statistics Inferential Statistics with R. [Coursera-Certificate]
- December 2016 Front-End Web UI Frameworks and Tools Bootstrap and Web Development. [Coursera-Certificate
 - August 2016 Valuation: Alternative Methods Financial Valuation. [Coursera-Certificate]
 - June 2012 National Student Conference in Metallic Materials Awarded best presentation prize for the presentation of PhD project. [DepartmentLetters.pdf]
 - July 2009 Queen Mary University of London - Awarded the Westfield Trust Prize for outstanding academic achievement, [Awards.pdf]
 - May 2006 QCA Lewisham College Gym, Exercise and Fitness Knowledge instructor.
 - July 2005 Lewisham College Awarded enrichment certificate in peer mentoring.

Talks, Posters & Seminars

- June 2014 Imperial summer seminar series Talk "A fundamental problem in computational steels processing".
- December 2013 International Conference on Processing & Manufacturing of Advanced Materials Poster "A phase-field model for the formation of martensite and bainite" [ThermecProgramme.pdf]
 - June 2012 National Student Conference in Metallic Materials Talk "A phase-field model for martensite".

Interests and hobbies

Bouldering, Advanced calisthenics (work in progress), Boxing, Football

Publications (ACADEMIA.EDU)

- [1] T. T. Arif and R. S. Qin: A phase-field model for bainitic transformation, Computational Materials Science 77 (2013) 230, [doi:10.1016/j.commatsci.2013.04.044].
- [2] T. T. Arif and R. S. Qin, A phase-field Model for the Formation of Martensite and Bainite, Advanced Materials Research 922 (2014) 31, [doi:10.4028/www.scientific.net/AMR.922.31].
- [3] Y. Zhao, D. Chen, M. Long, T. Arif and R. Qin, A three dimensional cellular automata model for dendrite growth with various crystallographic orientations during solidification, Metallurgical and Materials Transactions B 45 (2014) 719, [doi:10.4028/www.scientific.net/AMR.922.31].