

Anton Stefanek

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Education

- 10/2009 - present **Imperial College London – PhD in Computing**
Quantitative modelling of massively parallel systems.
- 10/2005 - 06/2009 **Imperial College London – MSci Mathematics and Computer Science**
First class honours, top of the class.
Master's thesis: Continuous and spatial extension of stochastic pi-calculus.
- 09/2002 - 05/2004 **International Baccalaureate School no. 771**, Bratislava, Slovakia.
Diploma awarded, 39 points in total.

Publications

Journal papers

- Fluid computation of passage time distributions in large Markov models
Richard A. Hayden, Anton Stefanek, Jeremy T. Bradley, Theoretical Computer Science, 2011
- Fluid computation of the performance–energy trade-off in large scale Markov models
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, SIGMETRICS Performance Evaluation Review, December 2011

International workshop and conference papers

- Mean-field analysis of Markov models with reward feedback
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, ASMTA '12, 19th International Conference on Analytic and Stochastic Modelling Techniques and Applications, Grenoble, 4–6 June 2012
- GPA – A tool for fluid scalability analysis of massively parallel systems,
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, QEST '11, 8th international Conference on Quantitative Evaluation of Systems 2011
- Fluid analysis of energy consumption using rewards in massively parallel Markov models
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, ICPE '11, 2nd ACM/SPEC International Conference on Performance Engineering, Karlsruhe, 14–16 March 2011
- A new tool for the performance analysis of massively parallel computer systems
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, QAPL '10, 8th Workshop on Quantitative Aspects of Programming Languages, Paphos, 27–28 March 2010

National workshop and conference papers

- Normal and inhomogeneous moment closures for stochastic process algebras
Anton Stefanek, Marcel C. Guenther, Jeremy T. Bradley, PASTA '11, 10th Workshop on Process Algebra and Stochastically Timed Activities, Ragusa, 29 August 2011
- Hybrid analysis of large scale PEPA models
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, PASTA '10, 9th Workshop on Process Algebra and Stochastically Timed Activities, London, 27 August 2010
- GPA – Tool for rapid analysis of very large scale PEPA models
Anton Stefanek, Richard A. Hayden, Jeremy T. Bradley, UKPEW '10, 26th UK Performance Engineering Workshop, Warwick, 8–9 July 2010

Employment

06/2011 - 09/2011 **Software Engineer Intern**, Google Zurich.

- YouTube partner uploads team.

06/2008 - 09/2008 **Summer Analyst in IT**, Morgan Stanley London.

- Equities trading server development. Developed a system (both backend and client) for managing and visualising trading limits.

06/2007 - 09/2007 **Extreme Blue**, IBM Hursley.

- Project on a prototype platform for indoor positioning and location-based services for mobile devices. Submitted a patent to the US patent office (US patent 7 548 731 – “Method to reduce power consumption of static wireless beacons and cost of infrastructure”).

06/2006 - 09/2006 **Undergraduate Research Opportunities Programme** at Imperial College London.
Project on designing a tool for program verification.

- Investigated possibilities and proposed a design for a tool that will be used for proving properties about programs (initially for the Reasoning about Programs course taught at Imperial College).

Teaching experience

10/2009 - 06/2010 **Mathematics Methods Tutor** at Imperial College London.

Teaching assistant with *Performance Analysis* and *Parallel algorithms* courses

10/2007 - 06/2009 **Undergraduate Teaching Associate** at Imperial College London for Logic and Reasoning about Programs courses

06/2005 - 11/2007 **Mathematics Tutor Volunteer**

Taking part in **Pimlico Connection** – scheme supporting scientific education at local schools. From 09/2006 lead tutor. Also involved in the activities of Imperial College Outreach office, attending Higher Education fairs and promoting the university.

09/2004 - 06/2005 **Computer Science Teacher** at High School Novohradská, Bratislava.

Teaching basic principles of programming and computer science, with focus on design of efficient algorithms.

Skills

Computing skills: Programming: Object oriented design and programming (advanced Java and C++ experience), Python, C, Functional programming (Haskell, ML). Experience with Matlab, R, \LaTeX and general design and typesetting skills.

Languages: Proficient English, Native Slovak, Basic German

Awards

03/2011 **Hillfred Chau Memorial Prize** – awarded to the student in Department of Computing who submits the best report for transfer from MPhil to PhD registration

07/2009 **Governors' Prize** – for the best overall result in the graduating class of the Joint Mathematics and Computer Science, Imperial College London

07/2009 **Donald Davies Memorial Project Prize** – for the best final year project in the Joint Mathematics and Computer Science, Imperial College London

07/2008 **Gloucester Research price** – for academic excellence in third year, Imperial College London

06/2007 **Allround excellence award in non-final year in Joint Mathematics and Computer Science** – award given to the best student in their non-final year, Imperial College London

06/2006 **Allround excellence award in first year in Joint Mathematics and Computing** – award given to the best student in their first year, Imperial College London

09/2002 - 05/2004 Successful participation in **Informatics Olympiad** while on High School - two times in Slovak National round (9th and 12th place).

Personal data

Date and place of birth: 28.9.1985, Bratislava, Slovakia
Nationality: Slovak (European Union)

References

On request.

May 12, 2012