THOMAS DELANEY

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EDUCATION

University of Bristol   *Sept 2016 - Present*

Candidate for a PhD in Computer Science

Research in computational neuroscience.

Focusing on statistical modelling of the fluorescence of calcium indicators and the activity of large populations of neurons.

Conferences: Presented posters at the BNA Festival of Neuroscience 2017 and COSYNE 2018

University of Edinburgh   *Sept 2014 - Sept 2015*

MSc in Informatics

Thesis in 'How informative are retinal ganglion cell responses about visual stimuli?'

Modules included: Neural Computation, Machine Learning & Pattern Recognition, Reinforcement Learning, Neural Information Processing, etc.

Overall Result: Distinction

Trinity College, Dublin   *Sept 2007 - June 2011*

B.A. in Mathematics

Including two years of Theoretical Physics

Final Year Project on Quantum Topos Theory

Poster Project entitled 'Biomechanics of Human Motion'

Modules included: Mathematical Neuroscience, Introduction to Information Theory, Functional Analysis, etc.

Overall Result: 1.1

St. Peter's College, Wexford   *Sept 2002 - June 2007*

Leaving Certificate - 550 points

A1 results in Maths, Physics, Technical Drawing

EXPERIENCE

University of Bristol   Sept 2016 - Present

Teaching Assistant/Invigilator   *Bristol, England*

· Teaching Assistant for Applied Statistics course. Helping undergraduate students with statistics workshops using Matlab.

· Prepared workshop for prospective computer science students on university open day.

· Exam invigilation.

Edinburgh Airport Ltd.   Jan 2016 - Aug 2016

Data Engineer   *Edinburgh, Scotland*

· Worked as a key member of the Airport's Digital team with a mandate to change every interaction with the airport using technology, data and innovation.

· Main responsibility involved taking in data available from around the business and extracting insights quickly and at low cost.

· Worked with teams such as Commercial, Security, Airfield, Forecasting and Planning to extract, transform and load data, making these datasets useful for these teams, and Edinburgh Airports senior management.

First Derivatives. Plc   June 2011 - Aug 2014
Consultant Software Engineer   *Newry, Ireland*

· Worked as a software engineer on in-house projects, and as a consultant for different financial companies and institutions.
· Four months as kdb+ consultant in Morgan Stanley New York offices, working on the creation and upkeep of a large historical and real-time financial database.
· Four months as kdb+ consultant and team leader in off-shore development centre for Morgan Stanley.
· Seventeen months as kdb+ consultant in a highly responsible role in the London based hedge fund Marshall Wace Asset Management.
· Final three months in team-leader role utilising in-house software for performance reporting on First Derivatives FX trading platform.

Trinity College Mathematics Dept.   May 2010 - Aug 2010
Summer Intern   *Dublin, Ireland*

· Composed a project entitled 'The Historical and Mathematical Development of Maxwell's Equations'.
· The objective of this project was to detail the development of Maxwell's equations from a scientific and mathematical point of view.
· Attended weekly meetings with the project supervisor from the Mathematics Dept.
· Ensured part of this project would be suitable for use in the Classical Field theory or Classical Electrodynamics course in Trinity college.

TECHNICAL STRENGTHS

Computer Languages	Python, Julia, Matlab, Bash, q/kdb+, Java, c++, Batch Scripting, LaTeX
Protocols & APIs	FIX messaging protocol, Geneos monitoring API
Databases	kdb+, MySQL
Tools	git, SVN, Vim, crontab, Autosys, Eclipse

SCHOLARSHIPS

Bristol PhD studentship, funded by the EPSRC
University of Edinburgh Informatics UK/EU Master's Scholarship 2014/2015
Exempt from Senior Freshman Mathematics Final Exams by virtue of Trinity Foundation Scholarship exam results.

ACHIEVEMENTS

Academic	Consistently excellent academic performance in a number well reputed of universities.
Professional	Working in Morgan Stanley within 3 months of finishing undergraduate degree. Maintaining a consistently high standard of work in every environment.

OTHER INTERESTS & SKILLS

Spoken Languages	English (fluent), Gaeilge (proficient), French (basic)
Sport	Weightlifting, Boxing, GAA (member of University of Edinburgh Gaelic Football Team), Soccer
Reading	Sport or Maths related non-fiction, Irish fiction, etc.
Gambling Technology	Using my coding and software knowledge to predict the outcomes of games and matches.