CHARLIE DICKENS

Alan Turing Institute, British Library \$\display\$ London, NW1 2DB 07793009133 \$\display\$ cdickens@turing.ac.uk

EDUCATION

University of Warwick

PhD Computer Science Supervisor: Graham Cormode

- · Funded under the project "Small Summaries for Big Data"
- · Theoretical techniques include: sampling, sketching, dimensionality reduction
- · Keen to apply novel techniques to Numerical Linear Algebra, Machine Learning, and Data Analysis problems
- · Enrichment Year Student at the Alan Turing Institute, London, September 2017-2018.

University of Birmingham

2012 - 2016

October 2016 - Present

MSci Mathematics Class I

- · Thesis title: "Probabilistic and Algorithmic Aspects of Spectral Graph Theory"
- · Studied various modules spanning Algebra, Analysis, and Combinatorics

Hagley Catholic High School

2005 - 2012

- · A levels: Mathematics (A*), Further Mathematics (A), English Literature (A), Physics (A)
- · GCSEs: 9A*s and 1A including English, Mathematics, and Science

PUBLICATIONS

Leveraging a Well-conditioned Basis for Robust Dimensionality Reduction 2017
In Submission with G. Cormode, D.P. Woodruff

AWARDS

British Colloquium for Theoretical Computer Science Speaker Bursary

March 2018

· One of 10 bursaries awarded for PhD attendees to present work on deterministic data summaries

WPCCS Best Presentation (Foundations)

June 2017

· Awarded for best presentation in Foundations track for work on Leveraging a Well-conditioned basis

London Mathematical Society Research Bursary

Summer 2015

- · Reviewed algorithmic, probabilistic, and spectral techniques
- · Worked under supervision of Dr. Nikolaos Fountoulakis

School Prizes Summer 2012

- · Upper School Mathematics (A Level)
- · Upper School Electronics (GCSE, retrospectively awarded)
- · Catenian Association Prize for Public Examination Performance (A Level)

TECHNICAL STRENGTHS

Computer Languages (Competent)
Tools

MATLAB, Python, GitHub, Microsoft Office

EMPLOYMENT

The University of Warwick

Spring 2017

- · Taught Mathematics for CSII
- · Planned and delivered tutorials for two groups of roughly 20 students
- · Marked weekly assignments

The Football Association

2008 - present

Supply League Referee (Level 4)

West Midlands Region

- · Plan and arrange fixtures with club and FA officials
- · Contact and brief my assistant referees to ensure a good team environment
- · Delegate various responsibilities to assistant referees
- · Demonstrate leadership before, during and after match-day
- · Complete necessary administration before and after the match
- · Awarded Young Referee of the Year, 2014-15 by Stourbridge Referees' Association

CED Property Services Ltd.

2013 - 2016

Domestic Energy Assessor

West Midlands Region

- · Communicate with clients to visit their house
- · Organise an itinerary for a day's work (including travel times and expenses)
- · Provide and explain an EPC to the client

Bridging To The Future

Spring 2014

Maths Mentor

Birmingham

- · Helped pupils with mathematical problems they had during class
- · Assisted delivery of lessons alongside main classroom teacher

Waterstones
2010 - 2011
Bookseller
Merry Hill, Dudley

- · Independently categorised and organised sections of books
- · Spoke to customers face-to-face to advise on future purchases

White Mountain Ski

2010 (6 months)

Sales Assistant

Wolverhampton

- · Advise customers on correct ski equipment for their competency
- · Responsible for correctly fitting certain equipment

EXTRACURRICULAR

- \cdot Facilitated a group on Cyber Security during May 2017 Turing Data Study Group
- · Selected by The FA to refere in an international youth tournament in France (May 2015)
- · Stourbridge Golf Club Junior Captain (2011 2012)
- · Trained Alpine Ski Leader
- · Chaired a debate on Electoral Reform during Sixth Form at Worcester Cathedral with an MEP, an MP, and campaigners for electoral reform