

SAMUEL GONSHAW

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 samgonshaw

 sjg10

PUBLICATIONS AND WORKS

- S. Gonshaw, M. W. Liebeck, and E.A O'Brien (2015). "Unipotent class representatives for finite symplectic and orthogonal groups in characteristic two". (Pending)
- S. Gonshaw (2014). "Computing Conjugacy Classes of Classical Groups Over Characteristic Two". MSci. Thesis. Imperial College London
- Tom Coates, Samuel Gonshaw, Alexander M. Kasprzyk, and Navid Nabijou (2014). "Mutations of Fake Weighted Projective Spaces". In: *Electr. J. Comb.* 21.4, P4.14

EDUCATION

Imperial College London
London, UK

(Sep 2010-Jun 2014)

- MSci. incorporatating BSc. & ARCS 1st Class (Hons.) Mathematics

Israel National Institute for Evaluation
Tel Aviv, Israel

(2008)

- Israeli Standard Psychometric Test: 95th-98th percentile rank

Birkat Moshe Talmudic Seminary
Ma'ale Adummim, Israel

(Aug 2007-Oct 2007)

- Study and analysis of Jewish theology with emphasis on Talmudic texts.

King David High School
Manchester, UK

(2000-2007)

- A Level: Mathematics (A), Further Mathematics (A), Physics (A), Modern Hebrew (A) (2007) Computing (AS - A) (2006)

EMPLOYMENT

OCZ Storage Solutions
Firmware Engineer

(Sep 2014-)

Development of firmware for the Barefoot 3 SSD controller in an Agile workflow. Experimentation on wearing patterns of NAND flash.

Imperial College London
Research Assistant

(Jul 2012-Dec 2013, Jul 2014-Sep 201)

Assisted the geometry group with both computational (MAGMA, SAGE, C, Python) package creation and mathematical research into Fano varieties.

Mangahigh.com
Maths Author

(Nov 2010-Apr 2011)

Authored problems for an online teaching environment for 6-16 year olds.

King David High School, Manchester
Examinations Invigilator

(Apr 2010-June 2010)

Supervised students undergoing external examinations. Assisted with examinations related clerical work.

Israeli Defence Forces
HR Co-ordinator
Infantry, Machine Gunner

(May 2009-Jan 2010)

(Oct 2008-May 2009)

Full combat training and security detail; General office work and organisation of human resources for a basic training base, report writing and data input.

Lewis and Co. Solicitors, Oldham

General Office Assistant

(Jun 2008- Sep 2008, Jul 2010)

Performed secretarial duties including filing and heavy lifting. Gave ICT advice and website planning.

Jerusalem Foundation, Jerusalem, Israel

Intern: Writer

(Feb 2008-May 2008)

Reported on and photographed charity events. Additionally, performed secretarial work and contributions to the website www.jerusalemfoundation.org.

Livnot U'Lehibanot, Jerusalem, Israel

Painter/Decorator/Handyman

(Oct 2007-Feb 2008)

Professional decorating assistance in addition to a volunteering placement involving decoration and renovation of underprivileged households.

**OTHER
EXPERIENCE**

Oct 2013-Jun 2014: Tutoring mathematics undergraduates at Imperial College London.

Jan-May 2013: Maths Teaching Assistant at Westminster City Boys School in conjunction with the Imperial College London outreach centre.

PROGRAMMING

C: Multithreaded C for scientific computation. Embedded C and ARM ASM.

Java: Experience in development for desktop, server and Android.

Mathematical Computation: SAGE, MAGMA, GAP, MATLAB, Maple. Contributed to the SAGE project in a Mercurial and Git environment. Proficiency in \LaTeX typesetting.

Other: Python, J2ME, Haskell

AWARDS

Mar 2014: ICHACK: Best E-learning application, most monetizable concept

Sep 2010: Outstanding Soldier of 933rd Training Base

Jan 2006: UK Mathematics Challenge, Gold Award

SKILLS

Problem Solving: My core skill, honed through mathematical reasoning.

Team Work: Work as a councillor and in the military has instilled me with a good sense of appropriate team interaction.

Interpersonal: Skilled in serving the needs of others: personal needs from experience as a camp councillor, and professional from work in HR.

Office: Data input, filing and organisation, secretarial work including phone manner.

Languages: Fluency in English and Modern Hebrew.

**VOLUNTEER
WORK**

Imperial Undergraduate Mathematics Colloquium (2012-2013) Founder, organiser and speaker.

Imperial College Fellwanderers: (2011-2012) Committee member.

Scouting Movement: (2006-2007) Councillor at a local branch.

Tutoring: (2006-2007) Occasional tutoring of mathematics and Hebrew Studies to children aged 11-16 (KS3-KS4).

Bnei Akiva Youth Movement: (2005-2007) Councillor on camps and regular meets. Founded and ran a local branch of said movement.