paulslevin

mathematician and software developer

email
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website
http://paulslev.in

phone
07890816989

programming languages
Python, SQL, HTML, CSS, JavaScript, LaTeX

organisations
member of Edinburgh Mathematical Society

references
available on request

education

since 2012 — **PhD** in Mathematics (exp. early 2016) — University of Glasgow
Thesis title: *2-categories and cyclic homology*

2011–2012 — **MASt** in Mathematics — University of Cambridge
aka Part III Mathematics

2007–2011 — **BSc (First Class Hons)** in Mathematics — University of Glasgow
Recipient of 7 awards, including most distinguished graduate in science

continuing education

since 6/15 — **Coursera MOOC: Fundamentals of Computing Science** — Rice University
Completed 4/7 courses so far with grade 100%, see https://uk.linkedin.com/in/paul-slevin-580a9235 for certificates

publications

Oct 2015 — **Hochschild homology, lax codescent and duplicial structure** — preprint
with Richard Garner and Steve Lack
http://arxiv.org/abs/1510.08925

Oct 2015 — **Factorisations of distributive laws** — JPAA
with Ulrich Kraehmer
http://dx.doi.org/10.1016/j.jpaa.2015.09.008

Aug 2015 — **Cyclic homology arising from adjunctions** — TAC
with Niels Kowalzig and Ulrich Kraehmer
http://www.tac.mta.ca/tac/volumes/30/32/30-32abs.html

Nov 2014 — **Schwede's loop bracket and projective classes** — OWR
Extended abstract for operads workshop at MFO
http://dx.doi.org/10.4171/OWR/2014/11

applications

2015 — **Personal website** — http://paulslev.in
Engineered using: Python (Django, pip, virtualenv, virtualenvwrapper, WSGI), Git, DigitalOcean, Linux (Ubuntu), Apache, bash, PowerShell

Polynomial parser (Python) — http://paulslev.in/projects/parser
Converts valid poynomial expressions into standard form

Unwinnable noughts and crosses (Python) — http://goo.gl/bhNUmQ
Uses recursion and minimax, built during Coursera course
Engineered using CodeSkulptor

see http://github.com/paulslevin/projects for full portfolio

experience

since 9/13 **Demonstrator and tutor** University of Glasgow
Supervising LaTeX labs for undergraduates, mentoring students, marking assessed homework, giving feedback to the Mathematics Department

4/15–6/15 **Research visitor** Macquarie University, Australia
Collaborating with the Centre of Australian Category Theory, giving research talks at weekly seminar, writing joint research paper linking algebra to higher category theory and the formal theory of monads

8/14–12/14 **Teaching fellow** University of Glasgow
Mentoring course heads in implementation of assessments in WebAssign, writing documentation, creating my own assessments

Sep 2011 **Work experience student** Lazard Asset Management, London
Working with Quantitative Portfolio Management team, observing how Mathematics and Statistics is used in the profession

skills and interests

- programming
- mentoring
- self-discipline
- research skills
- fast learner
- creativity
- problem solving
- musical performance
- musical composition
- communication
- collaboration
- education