Joseph Slote
Maths & CS Researcher, Software Developer, Multi-discipline Designer

St. Peter's College, New Inn Hall St.   UK: 07856 874961, US: (814) 230-2484
Oxford, OX1 2DL   joseph.slote@maths.ox.ac.uk

EDUCATION

University of Oxford   Sep 2017 (Exp. Grad.)
MSc in Mathematics and the Foundations of Computer Science

Carleton College,[1] Northfield, MN; GPA: 3.92   Jun 2016
- Steven P. Galovich Prize in Mathematics   2016
- Distinction in senior thesis (Combinatorial Folding Problems)   2016
- Barry Goldwater Scholarship, Honorable Mention   2015
- Damon V. Merit Scholarship   2015
- Ford Motor Co. Scholarship   2015
- Two grants from the R. J. Kolenkow and   Dec 2014 & Mar 2015
  R. A. Reitz Fund for Undergraduate Research
- Dean's List   2013, 2014
- Exemplary rating on sophomore writing portfolio   2014

RESEARCH

Slote, J. A, & Strand, J. F. (2015). Conducting spoken word recognition research online: Validation and a new timing method. *Behav Res Methods*, May 19. DOI: 10.3758/s13428-015-0599-7. — 4 citations.

Slote, J. A. (2016) A poset on trees for meander enumeration (Combinatorics, in preparation)

Slote, J. A. and Thompson, R. (2016) Enumerating minimally k-separating graphs (Topological Graph Theory, in preparation with Prof. Rob Thompson, Carleton College)

PROJECTS

Hit the Books   Jun 2015 – Present
A marketplace for face-to-face textbook exchanges. Launched pilot successfully at Carleton College; other locations pending. See `carleton.hitsthebooks.com` and `github.com/CarletonDevX/textbook-exchange`.

CarlDraw   Nov 2014
A live-updating dashboard web app for Carleton's room draw process. I led 16 student developers. See `github.com/CarletonDevX/room-draw/`.

WORK

Full Stack Web Developer, Wheat Co.   Jan 2016 – Present
- Consult and develop custom software for clients around the US

Research Assistant, Deutsch Group   Dec 2014 – Sep 2015
Center for Quantum Information and Control,
University of New Mexico
- Analyzed the computational ability of a specialized quantum computer (the Boson Sampler) when subject to realistic noise conditions. Scooped by V. S. Shchesnovich (arXiv:1501.00850).

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[1] Carleton is a small but highly selective liberal arts college, ranking 1st in undergraduate teaching and 7th overall among American liberal arts institutions according to *US News & World Report*.

Research Assistant, Perception Lab of Prof. Julia Strand   Jan 2014 – Jan 2015
Carleton College, Northfield, MN
- Developed and conducted a psycholinguistics study on grammatical expectation using the Tobii© Eye Tracker.
- Contributed code to the open-source PsiTurk platform.

Product Designer, ScienceSeeds   Jun 2013 – Sep 2014
Princeton, NJ
- Designed and prototyped a number of educational science kits for the elementary school age group.

Front-end Web Developer, Web Services   Jan 2013 – Jan 2014
Carleton College, Northfield, MN
- Extended and integrated a modern form creation interface into the college's open-source Reason CMS.
- Designed a responsive and content-first Art Department Blog.

Fixture Designer, Channellock Inc., Meadville, PA   2011 – 2012
- Designed and prototyped high-throughput machining fixtures for hand tool manufacture that balanced ease of use, repeatability, and cost.

LEADERSHIP   *President and Co-Founder*, Carleton Developers Exchange   Mar 2014 – Mar 2016
- Organized numerous programming tutorials and technical talks from regional technology companies.

SKILLS   **Software Languages:** Java, Python, Javascript
Web Technologies: NodeJS, MongoDB, AngularJS, Meteor, Mithril
Scientific Computing: Mathematica, SageMath, NetworkX
CAD Software: SolidWorks 4 yrs., Pro/E 2 yrs.
Prototyping: CNC and Manual milling, 4 yrs., 3D Printing, 3 yrs. (3D Systems Projet, Afinia, RepRap)

Web and graphic design portfolios available on request.