

Harry Askham | CV

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I am a software engineer with twelve years of professional experience, six of which have been focused on building and leading high-performing teams across both Google and DeepMind.

My work has spanned from widely used full-stack web applications to machine learning research published in *Nature*.

I am interested in solving the engineering challenges that arise when deploying the scientific state-of-the-art in the real world.

Education

University of Cambridge

Christ's College

Oct 2008 – Jun 2011

BA (Hons.), MA (Cantab), Computer Science (2.1)

University of London

Birkbeck College

Oct 2014 – Aug 2016

MSc Cognition & Computation (**Distinction**)

University of London

Birkbeck College

Oct 2021 – Aug 2022

Mathematics Graduate Certificate (**Distinction**)

Experience

DeepMind

London

Senior Staff Software Engineer, Applied

Aug 2020 – Present

- Engineering lead focused on delivering real-world applications of DeepMind's breakthrough AI.
- Led the Applied Engineering team responsible for the launch of Isomorphic Laboratories.

Google

London

Engineering Lead, Health Research UK

Jan 2019 – Aug 2020

- Grew and led Google Health's 23-engineer research team in the UK.
- Managed three subteams across ophthalmology, radiotherapy and medical records research.
- Focused on the safe deployment of state-of-the-art machine learning models in clinical settings.

DeepMind

London

Staff Software Engineer, Health Research

Oct 2016 – Jan 2019

- Built and led a 12-person engineering team in Health Research.
- Designed and built the infrastructure behind several *Nature*-family publications.
- Led the *sui generis* deployment of best-in-class clinical predictions to doctors via an iOS app.

Google

London

Senior Software Engineer, AdWords & Sales

Oct 2011 – Oct 2016

- Tech lead for full-stack team of 8 engineers building high-revenue sales tools.
- Led engineering for a knowledge management system relied upon by 20,000+ Google salespeople.

Bloomberg

Research & Development (Internship)

London

Jun 2010 – Sep 2010

- Given sole control of an important, time-critical project.
- Designed and delivered a suite of network simulation and testing tools in C++.

Skills

- Hiring, building and leading highly effective engineering and research teams
- Designing and implementing complex Google-scale distributed systems
- Leading the practical, real-world deployment of cutting-edge machine learning models
- Running full-stack production application development projects from inception to launch

Languages

- Significant Haskell experience, and a passion for functional programming
- Python and its ecosystem (TensorFlow, PyTorch, Jax, NumPy, SciPy, etc)
- JavaScript, TypeScript, PureScript, Elm and experience with modern web development
- iOS + MacOS development experience in both Swift and Objective-C
- Less recent multi-year professional experience in C++, Go and Java

Selected Publications

Nikolov, Stanislav, Sam Blackwell, Alexei Zverovitch, Ruheena Mendes, Michelle Livne, Jeffrey De Fauw, Yojan Patel, Clemens Meyer, **Harry Askham** et al. "Clinically Applicable Segmentation of Head and Neck Anatomy for Radiotherapy: Deep Learning Algorithm Development and Validation Study." *Journal of Medical Internet Research* 23, no. 7 (2021): e26151.

Tomašev, Nenad, Natalie Harris, Sebastien Baur, Anne Mottram, Xavier Glorot, Jack W. Rae, Michal Zielinski, **Harry Askham** et al. "Use of deep learning to develop continuous-risk models for adverse event prediction from electronic health records." *Nature Protocols* (2021): 1-23.

Yim, Jason, Reena Chopra, Terry Spitz, Jim Winkens, Annette Obika, Christopher Kelly, **Harry Askham** et al. "Predicting conversion to wet age-related macular degeneration using deep learning." *Nature Medicine* (2020): 1-8.

Tomašev, Nenad, Xavier Glorot, Jack W. Rae, Michal Zielinski, **Harry Askham**, Andre Saraiva, Anne Mottram et al. "A clinically applicable approach to continuous prediction of future acute kidney injury." *Nature* 572, no. 7767 (2019): 116-119.

De Fauw, Jeffrey, Joseph R. Ledsam, Bernardino Romera-Paredes, Stanislav Nikolov, Nenad Tomasev, Sam Blackwell, **Harry Askham** et al. "Clinically applicable deep learning for diagnosis and referral in retinal disease." *Nature Medicine* 24, no. 9 (2018): 1342-1350.

Wagner, Siegfried Karl, Reena Chopra, Joseph R. Ledsam, **Harry Askham**, Sam Blackwell, Livia Faes, Konstantinos Balaskas, Trevor Back, and Pearse Andrew Keane. "Diagnostic accuracy and interobserver variability of macular disease evaluation using optical coherence tomography." *Investigative Ophthalmology & Visual Science* 60, no. 9 (2019): 1849-1849.

Quercia, Daniele, **Harry Askham**, and Jon Crowcroft. "TweetLDA: supervised topic classification and link prediction in Twitter." In Proceedings of the 4th Annual ACM Web Science Conference, pp. 247-250. 2012.