

# Jason Cole

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London, UK  
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- About** I am currently a software engineer working on data analytics and visualisation, and was previously a plasma physicist. I have previously enjoyed working on side projects aligned with my interests. Got something fun? Get in touch!
- Employment**
- Software engineer - Count** December 2017 - present
- Full-stack Typescript + React + Node + WebGL, writing performant and intuitive data analytics software
- Research Associate - Imperial College London** May 2015 - December 2017
- Experiments on high power laser facilities in the UK, Europe, and the US.
  - Data analysis and stats - Bayesian inference, integral transforms, iterative reconstruction techniques, inverse problem methods.
- Education**
- PhD in Plasma Physics** Oct 2011 - May 2016  
*Diagnosis and Application of Laser Wakefield Accelerators*  
Imperial College London
- MA (Cantab) & MSci in Natural Sciences** Oct 2007 - June 2011  
University of Cambridge, Churchill College. First class in Parts I, II and III.
- Awards**
- 2017 Culham Thesis Prize - top UK/Ireland plasma physics PhD thesis  
2014 Data Science Institute Summer Challenge - first prize  
2013 Imperial College Physics Symposium Prize  
2010 Churchill College Bullard Prize
- Selected publications**
- High-resolution  $\mu$ CT of a mouse embryo using a compact laser-driven X-ray beta-tron source**  
*Proceedings of the National Academy of Sciences* May 2018  
[J. M. Cole](#), D. R. Symes, N. C. Lopes, J. C. Wood, K. Poder *et al.*
- Experimental Evidence of Radiation Reaction in the Collision of a High-Intensity Laser Pulse with a Laser-Wakefield Accelerated Electron Beam**  
*Physical Review X* Feb 2018  
[J. M. Cole](#), K. T. Behm, E. Gerstmayr, T. G. Blackburn, J. C. Wood *et al.*
- Extra-curriculars**
- Personal blog [jasmmcole.com](http://jasmmcole.com) with over 1.5 million page views, regularly featured on technology-focussed aggregators such as *Hacker News*.
  - Article for *The Conversation* featured in the *Guardian* and *New Scientist*.
  - Android application *WiFi Solver* with over 38,000 paid downloads and £17,000 in revenue. Featured on *Ars Technica*, *Engadget* and national press.