John Mathews, Ph.D, MEng, ACA

*Accountant ∙ Data Analyst ∙ Digital Currencies Specialist*

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| Personal Details Location: London, UK  Email: [mthwsjc@gmail.com](mailto:mthwsjc@gmail.com)  British passport holder Online Blog: [johnmathews.eu](about:blank)  LinkedIn: [/in/johnmathews1](http://www.linkedin.com/in/johnmathews1) Languages English: Native  German: Intermediate  Spanish: Beginner  Programming and Scripting Languages, Packages  Python, UNIX, R, SQL, ACL, MATLAB, Erlang, LaTeX, Pandas, SAS | Summary John is seeking to establish himself as a digital ledger (cryptographic blockchain) specialist, by utilizing his engineering and accountancy skills and experiences. He is a chartered accountant, an engineering PhD and a hacker.  His 3 years' experience in the banking sector has increased his finance and business expertise. He can excel while working in corporate or academic environments. He learnt how to research, analyse and communicate whilst completing an Engineering PhD in Vienna, Austria.  He is resilient, adaptable and ambitious. Areas of particular interest include Digital Ledger Technology with a focus on how to increase social mobility, offer services to the un-banked and remove unfair competitive advantages. | | |
| Employment |  |  |
| 01.2016 – Present | PwC, Data Assurance, London | Senior Associate |
|  | I plan, execute and report the transfer, transformation and analysis of large financial datasets to support an independent opinion over published financial accounts. Data sets include financial journals (ledgers) across complex corporate structures, credit books (loans, mortgages), trading commission (revenue) and expenses records.  This requires learning about a client's operating environment and understanding their business processes. Interpersonal skills and rapport building are required to work effectively with clients to transfer and examine data outside their organisation. | |
| 04.2014 – 12.2015 | PwC, Risk Assurance, London | Associate |
|  | Testing of automated business controls including merchant point-of-sale systems and the Internal Audit function at a global payments company. | |
| 04.2010 – 10.2013 | PARDEM Research Network, Vienna | Researcher |
|  | Cutting-edge investigation into the behaviour of granular materials in increased gravities using a complex experimental set-up I designed and implemented. The physical experimental model was validated using a computational model I wrote and tested. I developed extensive problem-solving and research skills whilst meeting complex goals in a foreign and stressful environment. Collaboration and technical communication skills were improved through regular international conferences and network events. | |

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| Skills and Competencies | | | | | | |
| * Strategic business management. * Data transfer, cleansing and analytics. * Management Information design and review. * Financial audit and reporting, including hedge accounting. * Business appraisal and valuation. * Numerical modeling of engineering processes incl. fluids, grains, weather. * Data science components including machine learning, data visualisation and exploratory data analysis. * Financial modeling of business processes incl. Revenue/Expenses, opportunity costs. * Programming experience with a wide range of languages and software. * Design, communication and review of research programmes. * Business-minded and entrepreneurial. * Reacts positively to change, achieving results by prioritising effectively. * Enthusiastic problem solver and critical thinker. * Tinkerer and hacker - e.g. I run a hackintosh, taught myself Python for data analysis, front-end web design to create a blog, Erlang to play with the AEternity testnet. * Marathon runner. | | | | | | |
| Publications | | | | | | |
| * Centrifugal Modelling of Granular Flows, Cabrera M, Mathews J. Wu, W., Eurofuge conference proceedings * Model Tests of Silo Discharge in a Geotechnical Centrifuge, Mathews J. Wu, W., (2015) Powder Technology * Investigation of Granular Flow Using Silo Centrifuge Models, Mathews J., (2013) Doctoral Thesis, Austrian National Library, Central Library of the University of Natural Resources and Life Sciences, Vienna * Experimental Investigation of Flow and Segregation Behaviour of Bulk Solids in Silos Under High Gravity Conditions, Mathews J. et al., (2013) in Particle Based Methods III – Fundamentals and Applications, PARTICLES 2013, Stuttgart, Germany, 18-20 September 2013. International Centre for Numerical Methods in Engineering (CIMNE), 352 – 362 | | | | | | |
| Education | | | | | | |
| 04.2017 | Chartered Accountant – ACA | | | | | ICAEW |
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| 10.2013 | Doctorate degree – PhD | | Universität für Bodenkultur, Austria | | | |
|  | “Investigation of granular flow using silo centrifuge models” | | | | | |
| 06.2009 | Master’s degree – MEng | | | University of Edinburgh, Scotland | | |
|  | Civil and Environmental Engineering | | | | | |
| 06.2004 | A-Levels | Shrewsbury Sixth Form College, England | | | | |
|  | Maths (A), Further Maths (B), Physics (A) | | | | | |
| Awards | | | | | | |
| 10.2009 | The Lindsay Prize (University of Edinburgh) | | | | | |
|  | “Consistently demonstrating the most aptitude for practical work throughout the honours course.” | | | | | |
| 04.2009 | The MWH Prize (University of Edinburgh) | | | | | |
|  | “The most sustainable design during the "Environmental Engineering Group Design Project 5" course.” | | | | | |
| 11.2005 | Queen's Jubilee Scholarship Trust (Institute of Civil Engineers) | | | | | |
|  | Scholarship with summer internships. | | | | | |