Clara Marquardt

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EDUCATION

Herchel-Smith Scholar, *Harvard Univ.* (*Fully-funded 1-year scholarship from Cambridge Univ.*)   Cambridge, US
14 15
- Graduate-level courses at the J.F Kennedy School of Gov. (HKS) and the Graduate School of Arts and Sciences with a focus on finance, management and leadership in a public policy context
- Machine-learning research project commissioned by the Mexican Gov. focused on developing an electricity consumption-based GDP 'nowcasting' model to provide high-frequency, municipal-level GDP estimates at low-cost (Supervisor: Sendhil Mullainathan)

BA (Hons) Economics, *Emmanuel College, Cambridge Univ.*   Cambridge, UK
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- *First Class* (all 3 years) - awarded the Kerslake Senior and Herchel-Smith Scholarships
- Specialisation in econometrics, impact evaluation, evidence-based policy and public economics
- Empirical dissertation employing panel regressions and Data Envelopment Analysis (DEA) to examine the evidence for a 'fiscal contract' a causal link between taxation and the composition/efficiency of public spending in 29 sub-Saharan countries (Supervisor: Toke Aidt)

International Baccalaureate (IB), Western Academy of Beijing *(45/45 Points)*   China /09

WORK EXPERIENCE

Senior Data Scientist and Project Manager, *Laboratory for Systems Medicine (Harvard Univ.)*   Boston, US
Oct 15
- Analysing electronic healthcare records data (>500k patients) using machine learning and natural language processing techniques to predict patient outcomes and improve clinical decision-making
- Leading the lab's day-to-day operations, overseeing a growing project portfolio, designing and implementing a data analytics pipeline, and recruiting and managing a team of 4 full-time analysts

Co-Founder and Director of Analytics, *Papero* (now *Pie*)   SF, US
Jan Oct 15
- Led the development of an in-house analytics dashboard and directed user research. Communicated actionable product insights to the development and design leads.
- Involved in strategic-decision making, fundraising and the management of 2 front-end developers
- Accepted into *Matter* (*Stanford d.school*-affiliated digital media start-up accelerator) within 5 months of incorporation
- Closed a $250k seed round and secured a partnership with an internat. news outlet (7m views/month)

Quantitative Analyst Intern, *Development Media International (DMI)*   London, UK
July Sept 13
- Modelled the predicted impact of a $2m, 2-year mass media behavioural change maternal/child health campaign in Ghana (Proposal submitted to USAID)
- Developed and assessed the expected cost-effectiveness of a mobile health (mHealth) needle safety campaign in Rwanda and Uganda

Research Fellow, *Konrad-Adenauer-Foundation*   Beijing, China
July Sept 11
- Wrote an independent research paper bringing a close examination of the concept of democracy to bear on an assessment of recent socio-political developments in China
- Analysed China-related media coverage in Chinese and English to produce weekly news briefs syndicated to journalists and embassies

Development Project Coordinator, *WAB/WB Jiashan-Jiangxi Partnership*   Jiashan, China
Jan Apr 11
- Served as an intermediary between international project funders and local government officials
- Led a group of 10 students to produce a 45-minute documentary of their remote village community

Full-Time Factory Assembler, *Siemens AG*   Dalian, China
Aug Nov 10
- Assembled ultrasonic flow metres in a locally-staffed production facility

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PROFESSIONAL ACTIVITIES

Freelance Software Developer *(2016 –)*
- Building an Electron/Python-based app for a large cooperate client automating their order management process by parsing customers' freeform product descriptions (emails/PDFs) to identify the products being ordered

President, *International Development Conference Cambridge* (2013)
- Chaired a 10-member committee for 8 months to organise a 1-day conference - responsibilities incl. conceptualisation, speaker management/logistics, budgeting and operational management
- The conference featured 25+ speakers (academics/practitioners incl. the Engineers Without Borders' CEO and Sri Lanka's Foreign Aid Director General) and attracted 250+ attendees (80% of attendees felt more knowledgeable about the sessions' topics after attending)

Vice president, *Giving What We Can (GWWC) Cambridge* (2012 – 2014)
- Organised effective altruism/development-focused events attended by up to 600 people per event and featuring thought-leaders such as Peter Singer
- Launched a well-received series of 'Giving Games' – workshops maximising donations' impact by involving groups of individuals in debates to decide upon their allocation based on an assessment of different charities' effectiveness

Innovation and Technology Fellow, *Liger Charitable Foundation (Cambodia)* (2012)
- Developed and launched a community-development focused *Ushahidi* crowd mapping platform

PUBLICATIONS

Blog : *'CreateThings'* - Visualisation-focused blog exploring ideas at the intersection of big and small data (2016)

Peer-Reviewed Journal Articles
- *'Bloodstream Infection or Contaminant? A Comparison of Short-Term Mortality and Expert Judgment'* (Working Draft)

Other Publications
- *'Taxation, Accountability and Responsiveness: Does History Provide Lessons for African Developing Countries?'* (Cambridge Univ. Dissertation, 2014)
- *'Social Enterprise in or for Development?'* - 4-piece long-form article series based on interviews with academics and development practitioners examining the socio-political and institutional repercussions of a growing reliance on social entrepreneurship as a driver of development (The Humanitarian Centre [aka Centre for Global Equality], 2012)
- 5 articles exploring the role of borders, identities and effectiveness in international development (Cambridge Univ. International Development Vision Magazine / Giving What We Can Blog, 2012 – 2013)
- *'Is China Democratising?'* (Konrad Adenauer Foundation Research Paper, 2011)
- *'Reflections from Jiashan'* A series of 52 dispatches from Jiashan, China reflecting on the complex on-the-ground reality of 'development aid' (2011)

SKILLS

Languages	**Mandarin** (Advanced - HSK Level 8) / **German** and **English** (Native Proficiency)
Data Science/Machine Learning	**R, Python, Stata, VB, SQL** and **Shell Scripting/Linux Architecture** (**Advanced**)
Data Visualisation/Front-End Dev.	**D3, JavaScript** and **HTML/CSS** (**Advanced**) / **Node.js** and **Electron** (**Intermediate**)