

# CURRICULUM VITAE

James Barlow

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## Brief summary

I have held a Chair in Technology and Innovation Management at Imperial College Business School since January 2003. Previous appointments include SPRU (Science Policy Research Unit at University of Sussex), the Policy Studies Institute and the University of Westminster. I received my BA and PhD from the London School of Economics and Political Science.

From 2003-2006 I helped establish and was Co-Director of the Innovation Studies Centre (now the [Innovation & Entrepreneurship Department](#)). From 2006 to 2013, I was Principal Investigator of [HaCIRIC](#) (Health and Care Infrastructure Research and Innovation Centre), the world's largest research programme on healthcare infrastructure. Since October 2013, I have been Associate Director of Research and Evaluation for [Imperial College Health Partners](#). I am a member of the management team for the Department of Health-funded Policy Innovation Research Unit ([PIRU](#)) and was part of the management team for the NIHR [CLAHRC](#) for Northwest London from its inception until 2019.

My research largely focuses on the structural and organisational challenges to the development and introduction of innovations in complex sectors of the economy, notably the built environment and healthcare. I am particularly interested in the relationship between innovation in healthcare technologies, services and infrastructure. I have led or been involved in many research and consulting projects around the world and have extensive experience advising government and industry on strategic and policy issues in healthcare, housing and construction. Prior to 2000 I was largely working on innovation in housing provision and other housing policy issues, including construction and supply chain innovation.

## Date of birth

12 January 1957.

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## Qualifications

PhD (Economics) London School of Economics and Political Science.

BA (Hons.) (Geography) London School of Economics and Political Science.

## Professional appointments

2003 – : Chair in Technology and Innovation Management, Imperial College Business School.

1999-2003: Professorial Fellow, SPRU (Science Policy Research Unit), University of Sussex.

1994-1999: Reader, University of Westminster, then Professor of Housing and Construction from 1998.

1993-1994: Research Fellow, Policy Studies Institute, London.

1984-1993: Research Associate, then Research Fellow, Centre for Urban and Regional Research, University of Sussex (also held a research fellowship at the Department of Geography, Open University during 1986-1988).

## Research projects and programmes as Principal or Co-investigator after 2000

*Prior to 2000 the majority of my work focused on housing policy, with research projects funded by ESRC (7), the Joseph Rowntree Foundation (7) and Department of the Environment (5) (list available).*

Dynamic capabilities. Sectoral systems of innovation and the UK's competitiveness. Pharmaceutical/biopharma sectoral study. Funded by Gatsby Charitable Foundation. £378,000 (2021-2022). Principal investigator. Imperial College London.

NIHR London In-Vitro Diagnostics Co-operative. Funded by NIHR, £1m (2013-2018), £1.3m (2018-2023). Co-investigator. Imperial College London.

Evaluating a Major Innovation in Hospital Design. Funded by NIHR SDO programme, £366,000 (2012-14). With Kings College London.

Health and Care Infrastructure Research and Innovation Centre (HaCIRIC). Funded by EPSRC under the IMRC programme, £12m (2006-2013). Principal investigator. Imperial College London, with Loughborough, Reading and Salford universities.

Policy Innovation Research Unit (PIRU). Funded by Department of Health, £5.5m (2011-2017). Co-investigator. Led by London School of Hygiene and Tropical Medicine, with LSE and RAND Europe.

Collaboration for Leadership in Applied Health Research and Care (CLAHRC) for Northwest London. Funded by National Institute for Health Research, £10m (2008-2013). Led by Chelsea & Westminster Hospital / Imperial College London Health Trust. Co-investigator and responsible for evaluation of CLAHRC programme.

Whole System Demonstrators Programme Evaluation. Funded by Department of Health, £2.3m (2008-2012). With City University (lead), LSE, UCL, University of Manchester, University of Oxford, Nuffield Trust. Co-investigator and theme lead.

Modelling Service Innovation in Stroke Care. Funded by Department of Health, £110,000 (2007-2008).

Innovation Studies Centre. Funded by EPSRC under the IMRC programme, £3.3m (2003-2008 renewal to 2012 agreed in 2006). Co-investigator.

Supporting Independence. New products, New practices, New communities. Funded by EPSRC, £696,000 (2003-2006). With Dundee University, UCL, Barnsley District General Hospital NHS Trust).

Telecare Planning and Implementation. Funded by EPSRC, £410,000 (2000-2003).

## Government and industry advisory work: summary

I am highly active in translating research findings into lessons for policy and practice. I have advised government bodies on healthcare innovation issues, both in the UK and internationally, and have been a member of expert panels on healthcare innovation for the Department of Trade and Industry, Department of Health, European Commission, the Royal Society, the King's Fund and other bodies.

I led inquiries into the uptake and spread of innovation in the NHS for the Policy Exchange and into the evidence base for telehealth for the Department of Health, which helped shape policy in this area. I was responsible for a foresight project on future technology needs for an ageing population for the Department of Trade and Industry. I have given evidence on public-private partnerships before the Treasury Select Committee and evidence on healthcare innovation issues to other Parliamentary Committees.

Since October 2013, I have been associate director of research and evaluation for [Imperial College Health Partners](#). I am an advisory board member of the Guy's and St Thomas' Hospital Charity Strategy Committee, supporting major investment in local healthcare innovation projects in London. In July 2014, I was appointed as the President of the [International Academy for Design and Health](#). Since 2015 I have been a member of the advisory board for [AGE-WELL](#), a major Canadian research programme on technology for an ageing society.

I have worked with companies across the healthcare technology and design and construction sectors, including medtech start-ups. I was a member of the healthcare advisory board for MITIE Group plc and chaired the healthcare advisory board for Willmott Dixon Construction Ltd.

Prior to concentrating on healthcare innovation, my consulting and advisory work focused on housing and construction industry issues. This includes work on mass customisation in housebuilding, the management processes involved in construction industry partnering, leading a Department of Trade and Industry scientific mission to Japan on innovation in housebuilding, and research for the Department of the Environment which underpins planning policy for affordable housing in the UK.

## Selected publications

### *Refereed journal papers*

Gama F, Tyskbo D, Nygren J, Barlow J, Reed J, Svedberg P (in press) Implementation frameworks for AI translation into healthcare practice: a scoping review. *JMIR (Journal of Medical Internet Research)* 24(1):e32215 doi: [10.2196/32215](https://doi.org/10.2196/32215)

Svedberg P, Reed J, Nilsen P, Barlow J, Macrae C, Nygren J (in press) Towards successful implementation of artificial intelligence in healthcare practice: A research program. *JMIR Research Protocols (Journal of Medical Internet Research)*. 19/01/2022:34920

Hindocha C, Antonacci G, Barlow J, Harris M (2021) Defining frugal innovation: a critical review. *BMJ Innovations* <http://dx.doi.org/10.1136/bmjinnov-2021-000830>

Huddy J, Ni M, Barlow J, Hanna G (2021) Qualitative analysis of stakeholder interviews to identify the barriers and facilitators to the adoption of point-of-care diagnostic tests in the UK. *BMJ Open* 10.1136/bmjopen-2020-042944

Antonacci G, Lennox L, Barlow J, Evans L, Reed J (2021) Process mapping in healthcare: a systematic review. *BMC Health Services Research*. [10.21203/rs.3.rs-80631/v1](https://doi.org/10.21203/rs.3.rs-80631/v1)

Mindell J, Bartington S, Janda K, Stoll L, Barlow J, Parag Y (2021) Using the Middle-Out Perspective to augment advocacy for smokefree legislation. *European Journal of Public Health*. 31: 340-340. <https://doi.org/10.1093/eurpub/ckab165.005>

Sounderajah V, Patel V, Varatharajan L, Harling L, Normahani P, Symons J, Barlow J, Darzi A, Ashrafian H (2020) Are disruptive innovations recognised in the healthcare literature? A systematic review. *BMJ Innovations* <http://orcid.org/0000-0002-4595-8402>

- Ni M, Borsci S, Walne S, Mclister A, Buckle P, Barlow J, Hanna G (2020) The Lean and Agile Multi-dimensional Process (LAMP) – a new framework for rapid and iterative evidence generation to support health-care technology design and development *Expert Review of Medical Devices* <https://doi.org/10.1080/17434440.2020.1743174>
- Cisnetto V, Barlow J (2020) The development of complex and controversial innovations. Genetically modified mosquitoes for malaria eradication. *Research Policy*, 49(3), <https://doi.org/10.1016/j.respol.2019.103917>
- Huddy J, Ni M, Misra S, Mavroveli S, Barlow J, Hanna G (2018) Development of the Point-Of-Care Key Evidence Tool (POCKET): a checklist for multi-dimensional evidence generation in point-of-care tests. *Clinical Chemistry and Laboratory Medicine*. <https://doi.org/10.1515/cclm-2018-1089>
- Chatterjee A, Robotham J, Barlow J, Holmes A et al. (2018) Quantifying drivers of antibiotic resistance in humans: A systematic review. *Lancet Infectious Disease*. [http://dx.doi.org/10.1016/S1473-3099\(18\)30296-2](http://dx.doi.org/10.1016/S1473-3099(18)30296-2)
- Antonacci G, Reed J, Sriram V, Barlow J (2018) Quality improvement through interactive simulation. *International Journal for Quality in Health Care*, 30 (S2), 29-30.
- Antonacci G, Reed J, Lennox L, Barlow J. (2018). The use of process mapping in healthcare quality improvement projects. *Health services management research*, 31(2), 74-84. doi:[10.1177/0951484818770411](https://doi.org/10.1177/0951484818770411)
- Myron R, French C, Sullivan P, Sathyamoorthy G, Barlow J, Pomeroy L (2017) Professionals learning together with patients: An exploratory study of a collaborative learning Fellowship programme for healthcare improvement. *Journal of Interprofessional Care*, doi:10.1080/13561820.2017.1392935
- Dattée B, Barlow J (2017) Multilevel organizational adaptation: Scale invariance in the Scottish healthcare system. *Organization Science*. <http://dx.doi.org/10.1287/orsc.2017.1113>
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- Greenhalgh T, Annandale E, Ashcroft R, Barlow J, Black N, Bleakley A, et al. (2016) An open letter to the BMJ editors on qualitative research. *BMJ* 352: i563. doi: <http://dx.doi.org/10.1136/bmj.i563>
- Huddy J, Ni, Zhifang M, Majeed A, Barlow J, Hanna G (2016) Point-of-care C-reactive protein for the diagnosis of lower respiratory tract infection in NHS primary care: a qualitative study of barriers and facilitators to adoption. *BMJ Open*. doi:[10.1136/bmjopen-2015-009959](https://doi.org/10.1136/bmjopen-2015-009959)
- Pizzo E, Doyle C, Matthews R, Barlow J (2015) Patient and public involvement: how much do we spend and what are the benefits? *Health Expectations*. doi:10.1111/hex.12204
- Maben J, Barlow J et al (2015) One size fits all? Mixed methods evaluation of the impact of 100% single room accommodation on staff and patient experience, safety and costs. *BMJ Quality & Safety*. DOI:10.1136/bmjqs-2015-004265
- Jacobson E, Bayer S, Barlow J, Dennis M, MacLeod M (2015) The scope for improvement in hyper-acute stroke care in Scotland. *Operations Research for Health Care* 6 (2015) 50–60, <http://dx.doi.org/10.1016/j.orhc.2015.09.003>
- Tucker D, Hendy J, Barlow J. (2015) The importance of role sending in the sensemaking of change agent roles. *Journal of Health Organization and Management* 29(7), 1047-1064. <http://dx.doi.org/10.1108/JHOM-12-2013-0279>.
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- Steventon A Bardsley M, Billings J, Dixon J, Doll H, Hirani S, Cartwright M, Rixon L, Knapp M, Henderson C, Rogers A, Fitzpatrick R, Hendy J, Newman S (2012) Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. *BMJ* 344, e3874 doi: 10.1136/bmj.e3874.
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- Hendy J, Barlow J, Chrysanthaki T (2011) Implementing remote care in the UK: an update of progress. *Eurohealth*, 17 (2-3), 21-23.
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- Barlow J, Bayer S (2011) Raising the profile of simulation and modelling in health services planning and implementation. *Journal of Health Services Research & Policy* 16(3), 129-130.
- Bayer S, Petsoulas C, Cox B, Honeyman A, Barlow J (2010) Facilitating stroke care planning through simulation modelling. *Health Informatics* 16, 129-143.
- Dattée B, Barlow J (2010) Complexity and whole-system change programmes. *Journal of Health Services Research & Policy* 15, S2, 12-18.
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- Barlow J, Roehrich J, Wright S (2010) De facto privatisation or a renewed role for the EU? Paying for Europe's healthcare infrastructure in a recession. *Journal of the Royal Society of Medicine* 103, 51-55.
- Barlow J, Köberle-Gaiser M (2009) Delivering innovation in hospital construction. Contracts and collaboration in the UK's Private Finance Initiative hospitals program. *California Management Review* 51, 126-143.
- Barlow J, Hendy J (2009) The challenges of adopting integrated mainstream telecare services: lessons from the UK. *Eurohealth* 2009, 15, 8-10.
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Barlow J, Bayer S, Curry R (2003) The design of pilot telecare projects and their integration into mainstream service delivery.' *Journal of Telemedicine and Telecare* 9, S1: 1-3.

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- Barlow J (1993) Reforming the housing system in Eastern Europe. *Policy Studies* 14, 53-62.
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### **Books**

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Barlow J, Duncan S (1994) *Success and Failure in Housing Provision. European Systems Compared*. Oxford, Pergamon.

Savage M, Barlow J, Dickens P, Fielding A (1992) *Property, Bureaucracy and Culture. The Middle Classes in Contemporary Britain*. London, Routledge.

### **Book chapters**

Wright S, Barlow J, Roehrich J (2019) Public-private partnerships for health services. Construction, protection and rehabilitation of critical healthcare infrastructure in Europe. In Clark R and Hakim S (eds) *Public Private Partnerships. Construction, Protection and Rehabilitation of Critical Infrastructure*. Springer.

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### Contributions to teaching

I currently lead modules on MSc courses at Imperial College London (International Health Management and Global Public Health) and an MBA elective (Managing Change and Innovation in Healthcare). I teach on IBSc Medicine and MSc Health Policy courses at Imperial College. I also teach on the MSc and MBA health innovation courses at ESSEC (Paris).

I helped develop and deliver executive education courses on advanced healthcare management (with Copenhagen Business School and IESE Barcelona) and accelerating health technology innovation to market (with Vlerick Business School / KU Leuven). I also teach on other executive education programmes.

I supervise student projects for MSc, MBA and IBSc Medicine courses.

I have supervised 13 doctoral students to successful completion.

### Other

Married with two children.

Languages: French.

Fellow, Royal Society of Arts (FRSA).