



Centre for Innovation Management Research (CIMR), Birkbeck, University of London

Annual Report 2016-17

<http://bbk.ac.uk/cimr/>

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From the Director

Who we are

CIMR is a College-wide research centre. It was launched in 2008. Its members are drawn from management-related and non-social science disciplines such as Computer Science and Biology. Thematically it encompasses science, innovation and technology systems, intellectual property rights, markets, social capital, entrepreneurship, globalisation, and gender in both theory and practice. Analysis of and communication of the implications of our research for policy-making (for governments and businesses) are central to the Centre's activities.

CIMR's members belong to four categories. The strength of the Institute comes from their interactions:

Academic Staff are the core members of the Centre. They are responsible for the advancement of one or more specific research themes within the centre. They publish cutting edge articles in the world's leading journals and work closely with stakeholders.

PhD students are an essential component in the Centre's membership. Their affiliation is based on their being either first or second supervised by a core member of the CIMR academic staff. In practice this means those in the Management Department. However, all PhD students who are supervised by CIMR academic staff are invited to attend – e.g. ones in economics, computer science and the School of Science.

Visiting Fellows are special assets for the Centre. They are colleagues who work closely with the CIMR. They include entrepreneurs, policy-makers, business people, academics in other UK universities, and academics who work outside the UK, including the US, Sweden, Ireland etc.

Alumni are former Masters and PhD students working in the field of innovation and entrepreneurship. They have varied career experiences. Their continued involvement brings current ideas and insights to our programme and several of them give guests lectures on our teaching programmes.

See <http://www.bbk.ac.uk/cimr/people/>

Our activities

The years 2016 and 2017 were particularly busy for CIMR. We have held seven international research workshops, two strategy meetings, one large international conference (these are listed in the section 'CIMR Workshops and Conferences'). We also hosted a delegation from China and were involved in organizing 5 workshops and panel events as well as several PhD seminars in the context of the Transforming Institutions by Gendering Contents and Gaining Equality in Research TRIGGER research project (these are listed in the "Research project - TRIGGER" section below)

This volume of activity has been made possible by changes in the management structure to reflect the broadening strategy and membership of CIMR and the need for more formal structures.

In September 2015, Federica Rossi and Marion Frenz became Deputy Directors. Later an alumni committee was established (Odile Janne, Alumni Coordinator, Viviana Meschitti, Wendy Hein, Grazia-Ietto Gilles, and Federica Rossi), and Jeremy Howells took charge of the CIMR impact strategy – RIDAP. These changes have enabled CIMR to widen its reach and impact.

Policy and practitioner engagement is a hallmark of CIMR activities, particularly important as we build to Research Excellence Framework (REF) 2020. We regularly communicate by blogs, posted on the Centre's new website (<http://bbk.ac.uk/cimr/>, replacing the previous blog <https://cimrbbk.wordpress.com/>)

News and appointments

Daniele Archibugi was nominated Membre d'Honneur of the French Research Network on Innovation (June 2016). He was appointed to the Academic Council of Venice International University, San Servolo (October 2017).

Simona Iammarino was elected fellow of Academy of Social Sciences, January 2017.

Colette Henry was awarded the Sten K. Johnson European Entrepreneurship Education Award, Lund, Sweden (2017).

Helen Lawton Smith and Rachel Lock's 2016 paper, "The impact of female entrepreneurship on economic growth in Kenya", published in the *International Journal of Gender and Entrepreneurship* was selected by the journal's editorial team as the Outstanding Paper in the 2017 Emerald Literati Network Awards for Excellence. In December 2016 Helen Lawton Smith was invited to be a member of the ESRC/Innovate UK Innovation Caucus. The Caucus is an initiative funded jointly by Innovate UK and the ESRC, which aims to promote closer engagement between social science researchers and the strategists, analysts and technologists.

Alexandra Poulouvassilis was appointed General Chair of the 31st British International Conference on Databases, 10-12 July 2017, London. She has been a Member of several international conference Programme Committees, including in 2016: ITS, IDA, GraphQ, Bx, ODBASE; in 2017: CSEDU, IDA, GraphQ, Digital Learning @ WWW, DaWaK, BICOD. She was also Guest Editor of a special issue of The Computer Journal (Oxford) featuring extended versions of the best papers from the 30th British International Conference on Databases, Edinburgh University, July 2016: see S. Maneth and A. Poulouvassilis, "Data Science", Computer Journal 60(3), pp 285-286, 2017, and was a Member of the Steering Board of the EPSRC-funded VADA ("Value Added Data Systems - Principles and Architecture") Programme Grant involving Manchester, Oxford and Edinburgh universities.

Klaus Nielsen is the Chair of the Foundation of European Economic Development.
<http://www.feed-charity.org/>

Helen Lawton Smith, Director, CIMR March 9 2018

Research in the CIMR

During the years 2016-17 CIMR staff published 4 books, 5 edited books, 39 journal articles, 8 book chapters, 2 other publications, and 11 working papers. They were active in presenting at international conferences such as the British Academy of Management and the Association of American Geographers, giving some 41 further papers.

CIMR academic staff and fellows hold a number of editorships and membership of editorial boards of internationally important journals.

Editors and editorial boards

Colette Henry, Editor in Chief, *International Journal of Gender & Entrepreneurship*, and Member of Editorial Board, *International Journal of Entrepreneurial Behaviour & Research*

Helen Lawton Smith, Associate Editor, *Strategic Change: Briefings in Entrepreneurial Finance*, and member of Editorial Boards of *Entrepreneurship & Regional Development* and the *International Journal of Gender & Entrepreneurship*

Carlo Milana, Editor in Chief, *Strategic Change: Briefings in Entrepreneurial Finance*

Klaus Nielsen, Chair of Board of Directors, Millennium Economics (owner of *Journal of Institutional Economics*)

Pierre Nadeau, Member of Editorial Board, *Strategic Change: Briefings in Entrepreneurial Finance*

Research projects

TRIGGER

The TRIGGER project at Birkbeck, University of London, is part of a five-country European consortium championing the role of female academics in scientific subjects (2014-2017) (<http://www.bbk.ac.uk/trigger/>). The project aims to understand the underrepresentation of women in Science, Technology, Engineering, Maths and Medicine (STEMM) subjects and to provide recommendations for fostering organisational change.

In 2016-17 the TRIGGER team organised a series of workshops and panel events focusing on leadership training and networking. It also held training sessions for three target groups - early career, aspiring professors and managers, and established professors.

Date of event (location)	Title	More information
10 March 2016 (Birkbeck)	Growing your own ecosystem, Speaker, Miranda Weston-Smith, Founder, BioBeat	http://blogs.bbk.ac.uk/events/2016/03/14/growing-your-ecosystem/
September 15 2016	First Early Career Seminar: Goal-setting for women working in a professional environment	http://www.bbk.ac.uk/trigger/news/trigger-first-early-career-seminar-goal-setting-for-women-working-in-a-professional-environment
2 November 2016 (Birkbeck)	Launch of the <i>Women Professors Network at the University of London</i> .	
23 March 2017 (Birkbeck)	Gender inequality in academic community bodies: causes and possible solutions	http://www.bbk.ac.uk/trigger/news/gender-panel-event-blog-post
22 May 2017 (Pisa)	Workshop Women & careers in STEMM, University of Pisa 27 May 2017	http://www.bbk.ac.uk/trigger/news/women-careers-in-stemm
21 June 2017 (London)	TRIGGER final conference, British Medical Association	http://blogs.bbk.ac.uk/events/tag/trigger/

Included in these activities is a PhD seminar series, supported by the Birkbeck Graduate Research School on Gendering Research. The TRIGGER team, together with Babylab, has organised the seminar “Boy brain, girl brain?” given by Dr. Teodora Gliga on December the 7th 2016. The talk presented the main findings from a study on babies’ cognitive development, conducted at Babylab and supported by TRIGGER. Details are available on the TRIGGER website, <http://www.bbk.ac.uk/trigger/news/rethinking-research-methods>

The TRIGGER team interviewed the President of Birkbeck Joan Bakewell, the Head of HR John Kempton, the Dean of the School of Science Prof. Nick Keep, and the Dean of BEI prof. Philipp Powell, on the importance of gender equality. The videos

are available here, <http://www.bbk.ac.uk/trigger/our-research/activities/birkbeck-leaders-speak>

TRIGGER also provided written evidence to the Select Committee on Women and Equality, see

<http://www.bbk.ac.uk/trigger/news/birkbeck-trigger-evidence-to-the-house-of-commons-select-committee-on-women-and-equalities>

Birkbeck grants

Luca Andriani, 2016, 'Space and Civic Engagement: A Spatial Analysis on Individual Level Data' (BEI small research grant)

Luca Andriani, 2017, 'Institutionalising Interdisciplinarity' (Research Centre Competition Collaboration Grant)

Marion Frenz & Daniele Archibugi, 2016, 'Which innovators will lead on the path to economic recovery?' (BEI research grant)

Marion Frenz & Daniele Archibugi, 2017, 'Innovation and Economic Recovery' (BEI research grant)

Marion Frenz & Grazia Ietto-Gillies, year? , 'Revisiting the concept and operationalization of absorptive capacity' (BEI research grant)

Marion Frenz & Federica Rossi, 2016 'Open innovation and business performance' (BEI impact grant)

Federica Rossi, 2016, 'The diversity of UK universities' knowledge exchange profiles: an exploratory analysis using Multidimensional Scaling' (BEI small research grant)

Federica Rossi & Suma Athreye, 2018, 'The role of public research organizations in the UK's innovation ecosystem' (BEI research grant)

Other grants

Odile Janne, 2016, Mobility grant from the Italian National Research Council, to work with Daniele Archibugi on the project entitled 'Innovation and international flows of patents'.

Alexandra Poulouvasilis, 2016 'Mapping Museums' AHRC grant, PI Dr Fiona Candlin, Co-I Poulouvasilis. (£800k)

Alexandra Poulouvasilis, 2016, Grant to fund 50% of a full-time PhD studentship in graph databases, from Neo Technologies, in collaboration with Eindhoven University of Technology (£30k)

Federica Rossi, 2016, 'Knowledge co-creation between universities and small and medium-sized enterprises: drivers and impact', British Academy/Leverhulme small research grant, Co-investigator (£10k)

Federica Rossi, 2018, 'Exploring the complexity of universities' knowledge exchange activities: Looking beyond currently measured outcomes', Society for Research in Higher Education grant, Co-investigator (£10k)

Federica Rossi, 2018, 'Developing impact measures of university-industry collaborations using text mining: evidence from Knowledge Transfer Partnerships in the UK', British Academy of Management grant, Co-investigator (£4k)

Keynotes and invited presentations

Daniele Archibugi, "Policies to foster innovative investment", Scientific Workshop on Transforming Innovation Policy, organized by Innovative Firms Forum, Madrid, 25 April 2017.

Daniele Archibugi, "Can a Europe of good-willing citizens prosper?", Swiss Institute in Rome. This was part of the Experiment Europe meeting on the theme of Borders and Beyond: Reinventing Europe, 8 June 2017.

Daniele Archibugi, "Science Fiction and Innovation: Who is leading the dance?", International Ph.D. Academy, Venice International University, September 18-22, 2017.

Daniele Archibugi, "Science Fiction and Innovation" Plenary Session devoted to Co-design in Science and Technology, Science Centres World Conference, Museum of Emerging Science and Innovation, Tokyo, November 15-17, 2017.

Marion Frenz 22 June 2016, 'Internationalization of Innovation Activities' , invited talk – workshop on internationalisation of innovation activities: challenges for firm strategy and government policy, Manchester Institute of Innovation Research, 'Internationalization of Innovation Activities' (with G Ietto-Gillies) 22 June 2016. Marion Frenz, 'Is innovation fuelling the economic recovery? The UK experience' (paper with D Archibugi and E Tredgett), Research Seminar, Department of Management, Birkbeck, 31 May 2016.

Fredrick Guy, "Risk-taking, skill diversity, and the quality of human capital: how insurance affects innovation", University of Essex, 31 May 2017.

Fredrick Guy, "Localization, skill supply, and regional resilience: Italy before and after the financial crisis" Workshop 'Risk and Resilience: a Regional Perspective', Università Roma Tre, Rome, 31 May-1 June 2016,

Grazia Ietto-Gilles, "Advantages of Transnationality. The role of Nation-States", University of Torino, November 2016.

Federica Rossi, "Policies to measure and reward knowledge transfer performance: do they work for diverse HEI systems?" Session on 'Enhancing the impacts of KT activities on economy and society', OECD High Level Event on The Knowledge Triangle, Paris, September 2016.

CIMR events

CIMR Workshops and Conferences

Date of event (location)	Title	More information
April 2016 (Birkbeck)	“The impact of entrepreneurial finance, education and religion on entrepreneurship”	https://cimrbbk.wordpress.com/2017/02/10/the-impact-of-entrepreneurial-finance-education-and-religion-on-entrepreneurship/
29 June 2016 (Birkbeck)	“Universities’ engagement in knowledge exchange: What do successful strategies look like?”	http://www.bbk.ac.uk/innovation/news-events/universities2019-engagement-in-knowledge-exchange-what-do-successful-strategies-look-like
30 June-2 July 2016	Uddevalla Symposium “Geography, Open Innovation, Diversity and Entrepreneurship”	http://www.bbk.ac.uk/management/about-us/events/uddevallasymposium2016
2 December 2016 (Birkbeck)	“Measuring the impact of academic research: best practices and open questions”	http://www.bbk.ac.uk/innovation/news-events/measuring-the-impact-of-academic-research-best-practices-and-open-questions; http://www.harzing.com/blog/2016/12/measuring-the-impact-of-academic-research-best-practices-and-open-questions
23 February 2017 (Birkbeck)	“Innovation Investment and Economic Recovery”	https://cimrbbk.wordpress.com/2017/04/25/cimr-innovation-investment-and-economic-recovery-workshop/
8 May 2017 (Birkbeck)	CIMR Strategy meeting and workshop on “Small Firm Adaptive Capability, Competitive Strategy, and Performance Outcomes”	
23 June 2017 (Birkbeck)	“Absorptive Capacity: Conceptual and Empirical Issues”	http://www.bbk.ac.uk/innovation/news-events/workshop-on-absorptive-capacity-conceptual-and-empirical-issues; https://cimrbbk.wordpress.com/2017/06/27/what-can-we-learn-from-absorptive-capacity/
12 September 2017 (Birkbeck)	“How can SMEs make the most of public R&D investment? Drivers of SMEs impactful engagement with universities”	http://www.bbk.ac.uk/cimr/2017/09/14/how-can-smes-make-the-most-of-public-rd-investment/; https://cimrbbk.wordpress.com/2017/02/06/workshop-on-innovation-investment-and-economic-recovery/

Interaction with Business, Society and Policy makers (Impact)

Daniele Archibugi and Andrea Filippetti gave a seminar presentation on ‘Why public investment in research and innovation can foster economic recovery’ at the European Investment Bank, Luxembourg. September 2016.

Renos Savva since July 2017 has chaired the [Industry, Internship, and Impact] 3i committee for the BBSRC LIDo PhD programme, which has an industry outreach remit for the benefit of closer collaborations with the biotech/pharma sector and for

student employability. His first task as chair was to put together a symposium on these subjects which took place on 12th December 2017

Helen Lawton Smith was part of an OECD team which visited Krakow, Poland July 2017 in order to prepare a Background Paper on the contribution of high-growth firms to new industry emergence for the OECD case study review on Policies for Local Emerging Industries in Malopolskie, Poland. She was also a consultant for the OECD for the report on SMEs and Entrepreneurship Policy in Canada which was published in 2017. http://www.oecd-ilibrary.org/industry-and-services/sme-and-entrepreneurship-policy-in-canada_9789264273467-en

Research Output

This section includes research output by CIMR academic staff and some Visiting Fellows and PhD students.

Books

- Archibugi, D., & A. Pease, 2017, *Crime and Global Justice. The Dynamics of International Punishment*, Cambridge: Polity Press.
- Archibugi, D. & A. Emre Benli (editors), 2018, *Claiming Citizenship Rights in Europe. Emerging Challenges and Political Agents*, London: Routledge.
- Etzkowitz, H. & C. Zhou, 2017, *The Triple Helix: University–Industry–Government Innovation and Entrepreneurship*, 2nd Edition London: Routledge
- Henry, C., Hill, F. & C. Leitch, 2017, *Entrepreneurship Education and Training*, Beijing, China: The Commercial Press.

Edited books

- Henry, C., Nelson, T. & Lewis, K., 2017, *The Routledge Companion to Global Female Entrepreneurship*, London: Routledge.
- Ibeh, K., Tolentino P.E. Janne O.E.M. & Liu, X. (eds., 2017), *International Business in a Multi-speed Global Economy*, Basingstoke: Palgrave Macmillan.
- Lawton Smith, H., Henry, C., Etzkowitz, H. & A. Poulouvassilis, A. (Eds) (forthcoming in 2018). *New Perspectives in Gender, Science and Innovation*. Cheltenham: Edward Elgar.
- Yousafzai, S., Fayolle, A., Lindgreen, A., Henry, C. & Saeed, S. (Eds). (forthcoming in 2018). *Women's Entrepreneurship and the myth of underperformance: A new look at women's entrepreneurship research*. Cheltenham, UK: Edward Elgar Publishing.
- Yousafzai, S., Lindgreen, A., Saeed, S., Henry, C., Fayolle, A. (Eds). (forthcoming in 2018). *Contextual Embeddedness of women's entrepreneurship: Going beyond a gender-neutral approach*. Cheltenham, UK: Edward Elgar Publishing.

Journal articles

- Andriani, L & A. Christoforou, 2016, Social Capital: a Road Map of Theoretical Frameworks and Empirical Limitations, *Journal of Economic Issues*, 50,1, 4-22
- Andriani, L. & A. Zajackowska, A., 2017, Institutional Quality and Illicit Capital Outflow: A Comparative Analysis of Eastern European Countries *Journal of Economics and Public Finance* 3, 1, 66-78
- Andriani, L., 2016, Tax Morale and Pro-Social Behaviour: Evidence from a Palestinian Survey, *Cambridge Journal of Economics*, 40(3), 821-841
- Archibugi, D. & A. Filippetti, 2018, The Retreat of Public Research and its Adverse Consequences on Innovation, *Technological Forecasting and Social Change*, 127, 97-111.

- Archibugi, D. & M. Cellini, 2017, The Internal and External Levers to Achieve Global Democracy, *Journal of Global Policy*, 8(S6), 65–77.
- Archibugi, D., 2017, Blade Runner Economics. Will Innovation Lead us Out of Crisis? *Research Policy*, <http://www.sciencedirect.com/science/article/pii/S0048733316301548>
- Archibugi, D., 2017, The Social Imagination for an Innovative Recovery, *Research Policy*, 46(3), 535-543.
- Archibugi, D., Filippetti, A. & M. Frenz, 2017, Investment in innovation can pull the EU out of its slump, *Research Europe*, 452, 8.
- Calì, A., Frosini, R., Poulouvassilis, A., & P.T. Wood, 2017, Flexible Querying for SPARQL, *Semantic Web Journal*, 8(4), 533-563.
- Filippetti, A., Frenz, M. & G. Ietto-Gillies, 2017, The impact of internationalization on innovation at countries' level: The role of absorptive capacity, *Cambridge Journal of Economics*, 41(2), 413-439.
- Foss, L., Henry, C. & H. Ahl, 2018, Female entrepreneurship Policy: A 30-year review, *Small Business Economics*, forthcoming.
- Gutierrez Santos, S., Mavrikis, M., Geraniou, E. & A. Poulouvassilis, 2017, Similarity-based Grouping to Support Teachers on Collaborative Activities in Exploratory Learning Environments, *IEEE Transactions on Emerging Topics in Computing*, 5(1), 56-68
- Hein, W., Steinfield, L., Ourahmoune, N., Coleman, C.A., Tuncay Zayer, L. and Littlefield, J., 2016, Gender Justice and the Market: A Transformative Consumer Research Perspective, *Journal of Public Policy & Marketing*, 35(2), 223-236.
- Henry, C., Foss, L. & Ahl, H., 2016, Gender and Entrepreneurship Research: A review of methodological approaches, *International Small Business Journal*, 34(3): 217-241.
- Henry, C., Orser, B., Coleman, S., Foss, L., Welter, F. & the Global WEP Research Team, 2017, Women's Entrepreneurship Policy: A 13-nation study, *International Journal of Gender & Entrepreneurship*, 9(3), 206-228.
- Henry, C., Rushton, J. & Baillie, S., 2016, Exploring the Sustainability of Small Rural Veterinary Enterprise, *Journal of Small Business & Enterprise Development*, 23(1): 44-63.
- Ietto Gillies, G., 2017, The organizational and geographical boundaries of the firm. Focus on labour as a major stakeholder, *Critical Perspectives on International Business*, 13(1), 72-92.
- Jelfs, P., 2016, Financial performance analysis of spin-off companies from a UK 'regional' university: a case study of the University of Birmingham, *International Journal of Entrepreneurship and Small Business*, 29(2), 271-286.
- Lawton Smith, H. & S. Romeo, 2016, Regional environments and sector developments: the biotech sector in Oxfordshire, *Journal of the Knowledge Economy*, 7(4), 905- 919
- Lawton Smith, H., Bagchi-Sen, S. & L. Edmunds, 2017, Innovation cycles and geographies of innovation: A Study of Healthcare innovation in Europe, *European Urban and Regional Studies* DOI: 10.1177/0969776417716220 (on-line July 2017)

- Meschitti, V. & H. Lawton Smith, 2017, Mentoring for women academics. A review of the literature and proposition for future research, *Journal of Research in Gender Studies*, 7(1), 166–199
- Poulouvassilis, A., Selmer, P. & P.T. Wood, 2016, Approximation and Relaxation of Semantic Web Path Queries, *Journal of Web Semantics*, 40, 1-21.
- Rosli, A. & Rossi, F., 2016, Third mission policy goals and incentives from performance-based funding: are they aligned? *Research Evaluation*, 25(4), 427-441
- Rosli, A., de Silva, M., Rossi, F. & N. Yip, 2018, The long term impact of engaged scholarship: how do SMEs capitalise on their engagement with academics to explore new opportunities, *International Small Business Journal*, forthcoming.
- Rossi, F., 2017, The drivers of efficient knowledge transfer performance: evidence from British universities, *Cambridge Journal of Economics*, <https://doi.org/10.1093/cje/bex054>.
- Rossi, F., Caloffi, A. & M. Russo, 2016, Networked by design: can policy requirements influence organisations' networking behaviour?, *Technological Forecasting and Social Change*, 105, 203-214.
- Rossi, F., Rosli, A. & N. Yip, 2017, Academic engagement as knowledge co-production and implications for impact, *Journal of Business Research*, 80, 1-9.
- Russo, M., Caloffi, A., Rossi, F. & R. Righi, 2018, Innovation intermediaries and performance-based incentives: a case study of regional innovation poles, *Science and Public Policy*, forthcoming
- Sahiti, F. & H. Lawton Smith, 2018, An application of Growth Diagnostics on the Growth of Firms: with evidence from Kosovo firms, *Journal of Innovation and Entrepreneurship* (forthcoming)
- Smith, R. & E. Cavatorta, 2017, Factor Models in panels with cross-sectional dependence: an application to the extended SIPRI military expenditure data, *Defence and Peace Economics*, 28(4), 437-456.
- Smith, R. & M.H. Pesaran, 2016, Counterfactual analysis in macroeconometrics: an empirical investigation into the effects of quantitative easing, *Research in Economics*, 70 (2), 262-280.
- Smith, R. & M.H. Pesaran, 2018, Tests of Policy Interventions in DSGE Models, *Oxford Bulletin of Economics and Statistics*, forthcoming
- Smith, R., 2016, The evolution of concentration in the arms market. *The Economics of Peace and Security Journal*, 11(1),12-17.
- Smith, R., 2017, Military expenditure data: theoretical and empirical considerations, *Defence and Peace Economics*, 28(4), 422-428.
- Smith, R., Aksoy, Y. & H.S. Basso, 2017, Medium-run implications of changing demographic structures for the macro-economy, *National Institute Economic Review*, 241, pR58-R64.
- Smith, R., Bove, V. & L. Elia, 2017, On the heterogeneous consequences of civil war, *Oxford Economic Papers*, 69 (3), 550-568.
- Smith, R., Garcia-Alonso, M. & Levine, P., 2016, Military Aid, Direct Intervention and Counterterrorism, *European Journal of Political Economy*, 44, 112-135.
- Smith, R., Ovington, T., Santamaria, J. & L. Stamatii, 2017, The impact of intra-platform competition on broadband penetration, *Telecommunications*

Policy, 41(3), 185-196

- Yousafzai, S., Lindgreen, A., Saeed, S., Henry, C., Fayolle, A. & F. Maon, (Guest Editors – Special Issue), (2018), Contextual Embeddedness of Women's Entrepreneurship: Taking stock and looking ahead, *Entrepreneurship & Regional Development*, forthcoming.

Book chapters

- Archibugi, D. & M. Cellini, 2018, Democratic Deficits: The External and the Internal Levers”, in A. Triandafyllidou (ed.), *Global Governance from Regional Perspectives*, Oxford: Oxford University Press, forthcoming.
- Archibugi, D., 2018, A Cosmopolitan Perspective on Global Criminal Justice, forthcoming in G. Andreopoulos & H. F. Chip Carey (eds), *Justice and World Order*, London: Routledge, forthcoming.
- Farinha, L., Ferreira, J.J., Lawton Smith, H. & S. Romeo, 2016, Geographies of Growth: Comparing Oxfordshire, a Core High-Tech Region in the UK, with an Emerging High-Tech Region—The Centro of Portugal Ch 8 in Peris-Ortiz, M & J.J. Ferreira (Eds.) *Cooperative and Networking Strategies in Small Business*, Springer, 131-154
- Ibeh, K., Tolentino P.E. Janne O.E.M. & X. Liu, 2017, ‘Introduction: Towards advancing the growth of international businesses and the global economy’, in K. Ibeh, P.E.T. Tolentino, O.E.M. Janne & X. Liu (eds.), *International Business in a Multi-speed Global Economy*, Basingstoke: Palgrave Macmillan, 1-9.
- Lawton Smith, H., 2016, Entrepreneurial regions in theory and policy practice, Ch 20, in Shearmur, R., Carrincazeaux, C. & D. Doloreux (eds) *Handbook of geographies of Innovation*, Cheltenham: Edward Elgar
- Lawton Smith, H., Etzkowitz, H., Meschitti, V. & A. Poulouvasilis, 2017, Female Academic Entrepreneurship and Commercialisation: Reviewing the evidence and identifying the challenges, Chapter 5 in C.Henry, T. Nelson & K Lewis (eds) *The Routledge Companion to Global Female Entrepreneurship* London: Routledge, 78-92
- Nielsen, K., 2017, Achievements and Challenges of the Chinese Model of Capitalism. How much can be explained by Confucianism? in Hanappi, H., Katsikides, A. & M. Scholz-Wäckerle (eds.) *Evolutionary Political Economy in Action*, London: Routledge.
- Tuncay Zayer, L., Coleman, C., Hein, W., Littlefield, J. & L. Steinfield, 2018, Gender and the Self: Traversing Feminisms, Masculinities, and Intersectionality Towards a Transformative Framework, in T.M. Lowrey & M. Solomon (Eds.), *The Routledge Companion to Consumer Behavior*, Routledge: NY, forthcoming.

Other publications

- Guy, F, 2017, Why Trump's cooperation with Putin could break EU action on climate change Open Democracy (www.opendemocracy.net), 23 August
- Filippetti, A. & F. Guy, 2016, Risk-taking, skill diversity, and the quality of human capital: how insurance affects innovation, Papers in Evolutionary Economic Geography #16.25, Department of Human Geography & Urban & Regional Planning, University of Utrecht.

CIMR Working Papers 2016-17

WP38 *A tale of persistent network additionality, with evidence from a regional policy.* Annalisa Caloffi, Federica Rossi, Margherita Russo.

Adopting a counterfactual approach to the evaluation of a regional R&D; collaboration policy, carried out in Tuscany (Italy), we investigate different types of persistent network additionality, namely persistence effect, breadth effect, composition effect, and depth effect.

WP37 *Innovation in risky markets. Multinational and domestic firms in the UK regions.* Luisa Gagliardi, Simona Iammarino.

This paper analyses the relationship between firm engagement in innovation and perception of market risk. It points to heterogeneity in the behaviour of multinationals (MNEs) versus single domestic firms, emphasising how this relationship changes across regional contexts.

WP36 *Entrepreneurship policies and the development of regional innovation systems: theory, policy and practice.* Helen Lawton Smith.

The paper provides an appraisal and synthesis of the regional innovation systems approach in relation to entrepreneurship policies. It addresses a number of areas where theoretical, empirical and policy-based issues are currently under-developed in relation to entrepreneurship and entrepreneurship policy.

WP35 *Science, Innovation and Technology Transfer Pathways in Translational Research: A Study of Divergent Trajectories in the Healthcare Sector in Europe.* Helen Lawton Smith, Sharmistha Bagchi-Sen, Laurel Edmunds.

The geography of the biomedical sector, that of clustering in particular regions, presents an opportunity for place-specific understanding of processes involved in translational research in medical sciences, particularly with regard to the role of public policy and its outcomes in four bioscience regions in Europe.

WP34 *Designing performance-based incentives for innovation intermediaries: Evidence from regional innovation poles.* Margherita Russo, Annalisa Caloffi, Federica Rossi, Riccardo Righi.

The paper focuses on the issue of how to identify appropriate indicators to measure the performance of publicly-funded innovation intermediaries. It argues that indicators need to be closely tied to the policy's objectives, which are usually linked to the remedying of innovation system failures. The case of a policy programme implemented in Tuscany (Italy) is used to illustrate how the choice of performance indicators that are only loosely tied to the policy's objectives, can lead intermediaries to adopt behaviours that are misaligned with those objectives. The findings are then used to develop some implications for the design of performance indicators that are aligned with the objectives of policy.

WP33 *Overeducation and overskill in the Italian labour market: the role of fields of study.* Valentina Meliciani and Debora Radicchia

This paper investigates the role of skill heterogeneity in affecting differences in occupational mismatch across fields of study. By relying on measures of overeducation and overskill collected in the 2014 ISFOL survey, we test to which extent the two phenomena differ across fields of study and the role played by merit and non-cognitive skills. We find that having an excellent

graduate curriculum significantly decreases over-education and over-skill, while non-cognitive skills do not matter.

WP32 *Understanding the Dynamics of Triple Helix Interactions. The Case of English Higher Education Institutions.* Mabel Sánchez Barrioluengo, Elvira Uyarra and Fumi Kitagawa.

This paper examines the evolution of the dynamics of the triple helix interactions exemplified by the case of Higher Education Institutions (HEIs) in England. Results highlight the persisting heterogeneity between HEIs in their combination, geography and evolution of triple helix interactions, particularly between research oriented universities and newer universities with strong teaching orientations.

WP31 *The Retreat of Public Research and its Adverse Consequences on Innovation* Daniele Archibugi and Andrea Filippetti

In the last decades a major trend has been ignored: both the quota of public R&D and its share over the total R&D investment has shrunk in most OECD countries. As a result, a larger fraction of knowledge is today generated in the private sector. We argue that this is a major problem since public research and private research differ along a number of characteristics. This has implications for innovation and welfare. Through the lens of the public goods theory and the evolution of R&D for the period 1981-2012 we try to explain why.

WP30 *Academic Inventors: Collaboration and Proximity with Industry* Riccardo Crescenzi, Andrea Filippetti, and Simona Iammarino

This paper addresses a number of questions on university-industry (U-I) collaborations. We find that U-I collaborations are less likely to happen when compared to other types of collaboration. Geographical proximity facilitates collaboration; it also works as a possible substitute for institutional proximity, facilitating U-I collaborations. ‘Star inventors’ play an important role in ‘bridging’ universities and industry.

WP29 *Train the worst or train the best? The determinants of employer-sponsored training in five European countries* Francesca Sgobbi

The paper investigates the effectiveness of training initiatives by checking whether a measure of employee-job fit and a measure of employee potential are significant determinants of participation in employer-sponsored training undertaken for job-related reasons. The empirical analysis, extended to five large EU countries (France, Germany, Italy, Spain, and the UK), is based on OECD PIAAC Survey.

WP28: *Does training help in times of crisis? Training in employment in Northern and Southern Italy* Andrea Filippetti, Frederick Guy, and Simona Iammarino

This paper explores the relative effectiveness of training in securing continued employment in a time of economic downturn, within the context of the Italian territorial dualism. We use a panel on 4,861 individuals for the period 2008-2011 and focus on how the effects of training differ between the South and the Centre-North of Italy, and also across workers with different levels of education.

Conference Papers and proceedings

- Al-Tawil, M., Dimitrova, V., Thakker, D. & A. Poulouvasilis, Evaluating Knowledge Anchors in Data Graphs Against Basic Level Objects. Proceedings

- of the 17th International Conference on Web Engineering, ICWE 2017, pp 3-22, Lecture Notes in Computer Science 10360, Springer 2017.
- Dimartino, M., Cali, A., Poulouvasilis, A. & P. T. Wood Query Rewriting under Linear EL Knowledge Bases. Proceedings RR 2016: 61-76
 - Dimitrova, V., Poulouvasilis, A., Van Labeke, N., Treasure-Jones, T., Brna, P. & Zukas, M., Intelligent Mentoring Systems for Making Meaning from Work Experience. Refereed position paper at the 1st International Workshop on Intelligent Mentoring Systems, at ITS 2016, Zagreb, June 2016 (published online at <https://imsworkshop.wordpress.com/proceedings/>)
 - Ferguson, S., Rokka, J. & W. Hein, 2016, Videographic and Visual Methods for Studying Gendered Becomings, 13th Conference on Gender, Marketing and Consumer Behaviour, ESCP Paris.
 - Fletcher, G.H.L., Peters, J. & A. Poulouvasilis, Efficient regular path query evaluation using path indexes. Proceedings EDBT 2016: 636-639
 - Frenz, M. & G. Ietto-Gillies, Revisiting the concept and operationalization of absorptive capacity, UK Academy of International Business, Birkbeck, 7-9 April 2016.
 - Frenz, M. & G. Ietto-Gillies, Absorptive capacity as innovation-enabling infrastructures, Uddevalla Symposium, Birkbeck, 30 June – 2 July 2016.
 - Frenz, M. & G. Ietto-Gillies, Absorptive capacity as innovation-enabling infrastructures, European Network on the Economics of the Firm, University of Torino, Italy, 15-16 September 2016.
 - Frenz, M. & G. Ietto-Gillies, Exploring technology upgrading in emerging and transition economies: from ‘shifting wealth I’ to ‘shifting wealth II’? UCL’s Centre for Comparative Studies of Emerging Economies Conference, 6-27 June 2017.
 - Frenz, M. & G. Ietto-Gillies, Workshop on ‘Internationalization of Innovation Activities: Challenges for Firm Strategy and Government Policy’, Organized by Jakob Edler and Marcela Miozzo, Manchester Institute of Innovation Research, Manchester University, 22nd June 2016.
 - Grawemeyer, B., Karoudis, K., Magoulas, G.D., Pinto, M. & A. Poulouvasilis, Design and Evaluation of Adaptive Feedback to Foster ICT Information Processing Skills in Young Adults. Digital Learning Track at WWW 2017, pp 369-377, ACM 2017.
 - Grawemeyer, B., Wollenschlaeger, A., Gutierrez Santos, S., Holmes, W., Mavrikis, M. & A. Poulouvasilis, Using Graph-based Modelling to explore changes in students’ affective states during exploratory learning tasks. Proceedings of Graph-Based Educational Data Mining (G-EDM) 2017, at EDM 2017.
 - Gutiérrez Santos, S., Capuzzi, S., Kahn, K., Karkalas, S. & A. Poulouvasilis Scalable Monitoring of Student Interaction Indicators in Exploratory Learning Environments. Proceedings WWW (Companion Volume) 2016: 917-922
 - Hein, W. & S. Rowe (track and roundtable co-chairs), 2016, Gender, Feminism and Macromarketing, 41st Annual Macromarketing Conference,
 - Hein, W., Littlefield, J. & N. Ourahmoune, 2016, Gender Injustices and Men and Masculinities: A Transformative Approach, 13th Conference on Gender, Marketing and Consumer Behaviour, , ESCP Paris.

- Hein, W., Rokka, J. & S. Ferguson (special session co-chairs), 2016, Gender Tensions in Digital Spaces: Theories, Methodologies, Visuals and Politics, 13th Conference on Gender, Marketing and Consumer Behaviour, ESCP Paris.
- Ietto-Gilles, G & G. Balcet, Internationalization, outsourcing and labour fragmentation. The case of FIAT, Dipartimento di Economia Marco Biagi, Università di Modena e Reggio Emilia, Modena 30 May 2016.
- Ietto-Gilles, G & G. Balcet, Internationalization, Outsourcing and Labour Fragmentation'. The Case of FIAT, 13th European Network on the Economics of the Firms (ENEF), Torino, September 2016.
- Ietto-Gilles, G., Transnational Companies and Labour. Implications for Theory and Policy', ITEM Project, Milan, Nov 2016.
- Lawton Smith, H, Meschitti, V., le Roux, J., Panton, M., Etzkowitz, H., Baines, N., Poulouvasilis, A. & C. Henry, Gender differences in commercialisation of research: an investigation at Birkbeck Presentation at the Triple Helix Conference Heidelberg, 25-27 September, 2016.
- Lawton Smith, H. & R. Waters, Universities and their local labour markets: the cases of Oxfordshire and Buckinghamshire, Invited Presentation at Workshop on "Diversities of Innovation" Berlin October 18 & 19, 2016.
- Lawton Smith, H. & R. Waters, Universities and their local labour markets: the cases of Oxfordshire and Buckinghamshire, Presentation at Uddevalla Symposium, Trolhatten, Sweden, June 2017.
- Lawton Smith, H. & S. Bagchi-Sen, Invited keynote presentation at International Conference on University-based Entrepreneurship and Regional Development: Theory, Empirics and Practical Implementation, University of Pécs 1& 2 December, 2016.
- Lawton Smith, H. & S. Bagchi-Sen, MedCity: Challenges and Opportunities in Envisioning a 'Golden Research Triangle' in London and the South East Paper presented at European Regional Science Association Annual Conference Vienna, August 23-27, 2016.
- Lawton Smith, H. & S. Bagchi-Sen, Medcity: Challenges and Opportunities in Envisioning a 'Golden Research Triangle' in the UK, Presentation at Association of American Geographers Annual Conference Boston, April 2017.
- Lawton Smith, H., Assimakopoulos, D., Baines, N., Romeo, S. & M. Tsouri, Oxford and Grenoble: knowledge organisations in local development revisited, Presentation at the Regional Studies Association Annual Conference 2017, Dublin, June 2017.
- Lawton Smith, H., Geographies and the gender politics of skill Invited panelist Panel session: Placing the Politics of Skill II American Geographers Annual Conference Boston, April 6 2017.
- Lawton Smith, H., Invited discussant, Meeting the Challenge of Social and Regional Inequality: How Coordinated Market Economies Link Innovation and Welfare given by Bjorn Asheim, Regional Studies Association Annual Lecture American Geographers Annual Conference Boston, April 7 2017.
- Lawton Smith, H., Lindholm Dahlstrand, A., L. Edmunds & S. Bagchi-Sen, Understanding the role of the local in technological innovation systems: Research-based firms and regional development in Sweden and the UK, Invited paper for special session in honour of Charlie Karlsson, Uddevalla Symposium 2017 June 2017 Trolhatten, Sweden

- Lawton Smith, H., Trippel, M., Zukauskaitė, E. & R. Waters, Understanding the role of the state: evolutionary economic geography and path development policies, Paper presented at European Regional Science Association Annual Conference Vienna, August 23-27, 2016. Session organiser and Chair, ‘Can Policy Transform Regions into Entrepreneurship and Innovation Hubs?’
- Mavrikis, M., Gutiérrez Santos, A. & A. Poulouvasilis, Design and evaluation of teacher assistance tools for exploratory learning environments. Proceedings LAK 2016: 168-172
- Nielsen, ., Less Innovation after the IPO? - A study of the biotechnology, pharmaceuticals and medical supply industries. AIB UKI Conference, Birkbeck, University of London, April 7-9, 2016.
- Nielsen, K., Building social capital in global virtual teams: the visual effects industry”. 19th Uddevalla Symposium, Birkbeck, University of London, June 30-July 2, 2016.
- Nölke, A.I., Lambert, A., Fitchett, J. & W. Hein, 2016, I’ Am Not a Feminist Because...: A Critical Discourse Analysis of Two Social Media Feminism Campaigns, 13th Conference on Gender, Marketing and Consumer Behaviour, ESCP Paris.
- Poulouvasilis, A., Al-Tawil, M., Frosini, R., Dimartino, M. & V. Dimitrova, Combining Flexible Queries and Knowledge Anchors to facilitate the exploration of Knowledge Graphs. Proceedings of the 5th Int. Workshop on Intelligent Exploration of Semantic Data (IESD 2016), at ISWC 2016 (15 pp).
- Rossi, F., A text mining approach to appraising and analysing the impact of academic engagement, Workshop ‘Resource Competition, Research Assessment and Institutional Affiliations in Academia’, Munich, Germany, September 2017.
- Rossi, F., de Silva, M., Rosli, A., Yip, N., Engaged scholarship and new business opportunities: how do SMEs capitalise on their engagement with academics?, British Academy of Management, September 2017
- Rossi, F., de Silva, M., Rosli, A., Yip, N., Overcoming the dark side of value co-creation in service networks: An entrepreneurial approach, British Academy of Management, September 2017
- Steinfield, L., Coleman, C. & W. Hein (special session co-chairs), 2016, Transforming the Study and Resolution of Gender Injustices: An Exploration of a Proposed Integrative Framework, 13th Conference on Gender, Marketing and Consumer Behaviour, , ESCP Paris.
- Steinfield, L., Coleman, C., Tuncay Zayer, L., Brace-Govan, J., Harrison, R., Hein, W., Östberg, J., Ourahmoune, N. & M. Sanghvi, 2017, Mapping out a Transformative Consumer Research Agenda for Gender & Intersectionalities, Transformative Consumer Research Conference, Cornell University, Ithaca: NY.
- Sumrall, J.M., Fletcher, G.H.L., Poulouvasilis, A., Svensson, J., Vejstrup, M., Vest, C. & J. Webber, Investigations on Path Indexing for Graph Databases, Performance Engineering for Large-Scale Graph Analytics (PELGA 2017), Lecture Notes in Computer Science 10104, pp 532-544, Springer 2017.
- Wells, M., Wollenschlaeger, A., Lefevre, D., Magoulas, G.D. & A. Poulouvasilis: Analysing engagement in an online management programme and implications for course design. Proceedings LAK 2016: 236-240

CIMR PhD student engagement

Currently there are some 20 students within the Department of Management involved with CIMR. Their details are listed on a separate page on the CIMR website. When the students graduate, they are invited to be CIMR alumni (former Masters, PhD and occasionally UG students) – CIMR has separate webpages for this group.

PhD students are invited to attend CIMR workshops, to submit working papers, to help organise events – sometimes as paid research assistants to CIMR, and to be speakers in CIMR events. These provide the main opportunities for networking and social activities.

PhD students advise on CIMR strategy – either at the annual CIMR strategy meeting or through dedicated meetings. On May 31st 2018 the next CIMR strategy meeting will be held at which one current PhD student is a confirmed speaker at the workshop that forms part of the event and two others will be invited as discussants. The practice of being discussants was instituted at the same event last year. Students usually work with their supervisor on organising the event.

There is no formal management committee of CIMR. Currently the only committee that exists is the alumni committee which has a primary task of selecting distinction masters dissertations for inclusion on the CIMR website alumni pages.

So far students' involvement in maintenance of the Centre's webpages has been confined to one student being paid to update CIMR webpages as part of the process of moving to the new site. One of her tasks is to ask for a brief bio from each student with thesis title and supervisors' names. When the new site is fully functioning, we will review how we might better involve students in maintaining the site.

Two main CIMR training programmes operate. The first is the recently instituted PhD seminar series (December 2017). This is being jointly organised by CIMR (Janne and Guy) and Essex Business School, Essex University. Two academic staff and a CIMR Fellow (Athreye, Professor of International Business at Essex Business School). Events are held alternatively at Birkbeck and Essex (Southend). This programme is being co-sponsored by the Department of Management and Essex Business School.

The second is the PhD module being organised as part of the TRIGGER project. PhD students act as Chairs or discussants at networking events at which academics – senior and junior – discuss their career trajectories. While this is college wide, there is a heavy representation of CIMR PhD students involved. The 2018 programme is supported by the BGRS. The TRIGGER deliverable 3.6 attached, sets out details.

CIMR academic staff encourage PhD students to attend conferences – particularly ones being organised by CIMR staff e.g. Uddevalla Symposium hosted by CIMR in June 2016, or to attend ones which they are attending. CIMR Fellows, particularly other academics, frequently engage with CIMR PhD students, advising them informally on their research and inviting them to take part in their events.

CIMR PhD student completions

- Ning Baines
- Mark Panton
- Fadil Sahiti
- Maja Savic
- Waraporn Yangsap

Helen Lawton Smith, Marion Frenz and Federica Rossi

Thanks to Dina Mansour for her work in compiling this report.