



London-
Loughborough
EPSRC CDT

Centre for Doctoral Training
in Energy Demand

LoLo ALUMNI

2009 - 2019

Our Alumni

Since its beginnings in 2009, The London–Loughborough EPSRC Centre for Doctoral Training in Energy Demand (LoLo) has supported over 90 students. It has provided them with the skills needed to become the future leaders in energy demand and buildings.

First and foremost, we equipped our students with the practical skills needed to become competent researchers in the fields of energy technology and systems, policy, economics, and human behaviour. By join existing large and active research groups, perhaps working in partnership with a range of industrial stakeholders and collaborators, they also acquired an appreciation of the rigour and integrity required to become a good researcher. Their ability to write was enhanced at our Colloquia and Summer Schools, and through membership of national and international networks, our students acquired an appreciation of the wider research landscape. Importantly, they learned to explain their work to others and convince them of its worth.

These skills mean that our graduates have moved on into many fields of endeavour where they are making a positive difference to peoples' lives. Our alumni and alumnae have taken on senior roles in academia, industry, commerce, and policy formulation. They have worked in central government, charities, construction companies, universities and colleges, think tanks, research organisations, NGOs, and consultancies. Some have formed their own companies based and are applying what they learned whilst in the CDT.

As Directors of the Centre, we frequently meet our graduates in professional settings, increasingly in situations where they hold important positions. We hope, by reading through this brochure, you will better appreciate their achievements and the contribution that LoLo has made.



Prof Robert Lowe (Director UCL)



Prof Kevin Lomas (Director Loughborough)

Alumni

Alexandros Adam (PhD, UCL)

Energy Analyst, National Technical University of Athens



Alexandros received his undergraduate diploma in Mechanical Engineering from the National Technical University of Athens. He then came to London and obtained an MSc in Building Services Engineering with Sustainable Energy from Brunel University. He worked as a building services engineer for a consultancy in London. In 2010 he joined the London – Loughborough EPSRC Centre for Doctoral Training in Energy Demand from which he obtained his MRes in Energy Demand Studies. In 2011 he joined the UCL Chemical Engineering department for a PhD degree in collaboration with the UCL Energy Institute. In 2015 Alexandros passed his PhD viva on the topic: “System Modelling and Optimisation Studies of Fuel Cell based micro-CHP for Residential Energy Demand Reduction”. Alexandros is now working as an Energy Analyst at the National Technical University of Athens.

Joynal Abedin - PhD, Loughborough University



Joynal is an Electronic Engineer by professional training and has substantial industrial Research & Development experience. He was awarded a prestigious industrial sponsorship by Thorn EMI Electronics Defence Group (now Thales) and studied MEng & BEng (Hons) degrees in Electronic and Electrical Engineering. He completed a two year IEE accredited post- graduate industrial training programme at Thales. Joynal has over eight years industrial R&D experience and held senior design engineer posts at Marconi Communications and Filtronic Comtek. Joynal has completed a Master of Research (MRes) degree in Energy Demand Studies at Loughborough University. Joynal's PhD research project title is 'Thermal Energy Storage in Domestic Buildings: A study of the benefits and impacts', and his research interests include short-term thermal energy storage technologies, building energy modelling & simulation, Demand side management and thermal energy storage materials.

Francesco Babich – (PhD, Loughborough University)

Senior Researcher at EURAC Research



Francesco is currently working as Senior Researcher at EURAC Research within the Energy Efficient Group (Renewable Energy Institute) and is about to complete his PhD at Loughborough University. During the last two years, he worked also as University Teacher at Loughborough University His field of interest is numerical modelling, including CFD, human thermal regulation and dynamic thermal modelling, and measurement techniques that are used to validated the models. Alongside his research activity, Francesco organized the second LoLo student-led conference, which had over 100 registered participants mainly from UK universities, is working as a University Teacher mainly in Investment Appraisal.

Previously, Francesco studied at the University of Trieste (Italy), where he obtained his Bachelor and Master Degree in Building Engineering. Having completed his Master, he was allowed to take the exam for the professional engineer license in July 2012 in Italy. He worked as an engineer and as a project manager for one year and half in Italy and Germany before joining LoLo in September 2013. He completed with distinction his MRes in September 2014.

Carrie Behar (PhD, UCL)

Senior Sustainability Consultant, Useful Simple Projects



I completed my PhD in spring 2016 and am currently working as a Senior Sustainability Consultant at Useful Simple Projects. We are a group of sustainability professionals providing strategic and technical consultancy services for the built environment. I enjoy the challenge of working across a broad set of environmental, social and economic themes on projects ranging from developing corporate sustainability strategies for well-known brands, to reviewing sustainable development opportunities for exciting new infrastructure and construction projects.

I also teach a module on Post Occupancy Evaluation for the MSc Environmental Design and Engineering course at UCL and am visiting sustainable design tutor on a number of university courses.

George Bennett – (PhD, UL)

Research Associate at UCL



Before taking on a Research Associate role at UCL, I completed my PhD as part of LoLo on the dynamic behaviour of domestic boilers in the UK, lifting the lid on the persistent performance gap in this mature technology by looking at the ‘Secret Life of Boilers’

As a Mechanical Engineer I have had a relatively wide experience in industry since finishing my undergraduate studies a ‘few’ years ago. Including working as a development engineer on a wide range of Products, from stirling cycle cryocoolers to hydraulic control systems for aircraft.

For the last 10 years I have been working at Bosch Thermotechnology primarily working on the lifetime and robustness of gas boilers. If it can go wrong with a boiler or heating system, I have probably seen it! This has allowed me to live and work across Europe, through Germany, the Netherlands and to Turkey

Arash Beizae (PhD, Loughborough University)

Senior Lecturer in Energy and Built Environment at De Montfort University (DMU)



Dr Arash Beizae is a Senior Lecturer in Energy and Built Environment at De Montfort University (DMU) in Leicester. Having trained as a Mechanical Engineer specialized in Heat and Fluids, Arash completed an MSc with distinction in Building Services Engineering at Loughborough University. In 2011, he was awarded an EPSRC scholarship to pursue his postgraduate education at London- Loughborough Centre for doctoral research in Energy Demand. He completed an MRes with distinction in Built Environment in 2012 and was awarded his PhD in 2016 for his work on investigating energy demand reduction potential of zonal space heating controls. Following his doctoral studies, Arash worked as a Research Associate at Loughborough University on a multidisciplinary research project (DEFACTO) where he continued his research on smart heating controls and also worked as a consultant for the UK's department for Business, Energy & Industrial Strategy (BEIS). Arash joined DMU in January 2017 where he currently leads two MSc programmes in Energy and Sustainable Building Design; and Energy and Sustainable Development. Arash is a Fellow of the Higher Education Academy (FHEA), Member of ASHRAE (MASHRAE) and ASHRAE's student activities chair at the UK Midlands Chapter.

Jenny Crawley (PhD, UCL)

Research Associate, Energy & Buildings, UCL Energy Institute



Prior to her appointment as a Research Associate, Jenny worked for two years as a Consultant at Element Energy, a low carbon energy consultancy carrying out rigorous mathematical analysis to help provide a sound evidence base for clients to make decisions on low carbon strategy. Jenny was hired as a built environment specialist and carried out modelling and analysis for clients including DECC, the CCC, energy companies and charities. Example projects included: creation of a dynamic model of a micro-CHP system interacting with a house, zonal simulation of different heating systems in a historic palace to protect the building without a high energy penalty and techno-economic modelling of the integration of heat

pumps in district heating networks.

Jenny's training in the field of energy demand came from her PhD at the LoLo Centre for energy demand reduction in the built environment, where she studied how energy efficient building retrofit might change occupants' heating behaviour. Her work focussed on integrating technical evidence from sensors and social data from occupants to discern how increase in internal temperature comes about when homes are retrofitted. She was able to challenge the conventional physics-based and economic approaches to retrofit, proposing a socio-technical approach instead. Jenny holds an MSc in Environmental Design and Engineering at UCL and a Physics degree at the University of Oxford. Between these courses she spent a year volunteering with a Christian Organisation.

Nafsika Drosou – PhD, Loughborough University



With a Civil Engineering background (University of the Philippines 2003, DMC Inc. scholarship) and diverse work experience, Nafsika completed an MSc in Low Carbon Building Design & Modelling at Loughborough University in 2010. Her dissertation employed simulation tools to examine the trade-off between visual and thermal comfort in a vernacular education building. She then joined Portsmouth University, School of Architecture, as a Research Assistant for SILCS (Strategies for Innovative Low Carbon Settlements) an EU Interreg IVC project.

Returning to Loughborough University, she completed the MRes in Energy

Demand Studies in 2013, with a dissertation project investigating IAQ compliance of refurbishment designs for a Victorian classroom, through CFD modelling.

Assessing actual daylighting performance of classrooms in use

Daylight is a non-depleting energy source with the potential to reduce lighting energy and contribute to the health and wellbeing of building occupants. The latest daylight design regulations for UK school buildings employed the new Climate Based Daylight Modelling (CBDM) metrics to specify daylight compliance, instead of using the traditionally and internationally used metric. However, knowledge that will allow assessing whether this move improves the daylighting performance of classroom designs is sparse. The project at hand addresses this gap by providing evidence of the visual needs, the user behaviour (electric light and blind use) and the subsequent operational daylighting performance from the day-to-day reality of four modern learning environments. A mixed method research approach associates the measured quantitative parameters with users' subjective views, revealing the underlying reasoning of observed behavioural responses and enabling an estimation of the potential held within daylight specifications and metrics to shape operational daylighting performance.

Özlem Duran – (PhD, Loughborough University) **Lecturer in Architectural Technology at University of Lincoln**



Dr Özlem Duran is Lecturer in Architectural Technology at the University of Lincoln, teaching in Architecture and Architectural Science and Technology degree courses.

After Özlem held her degree in architecture, for over 6 years she worked in various design and construction companies in Istanbul, such as Arup. In 2007, she started MSc. in Istanbul Technical University (ITU) and completed her dissertation in the Applied Sciences University of Stuttgart (HFT) where she worked as a researcher later. Özlem completed her MRes in 2013 and PhD in 2018 in building performance analysis at Loughborough University as a member of LoLo CDT. She also worked as teaching assistant (Loughborough University) and part-time lecturer (Nottingham Trent University) during her studies. After completing her PhD Özlem decided to expand her experience in industry; she worked as a design coordinator in deep-retrofit of a social housing district applying off-site construction methods

Mike Fell (PhD, UCL) **Senior Research Fellow at UCL Energy Institute**



Michael Fell is a senior research fellow at UCL Energy Institute. His work focuses on social aspects of energy use, in particular people's desire and ability to offer flexibility to electricity systems. He is currently working on two main projects: as researcher co-investigator on the Energy Revolution Research Consortium (EnergyREV) on smart local energy systems; and as a researcher on the UKRI Centre for Research into Energy Demand Solutions on distributed ledger technology and energy retail markets.

His previous work has explored consumer demand for domestic demand-side response product offerings such as time of use electricity tariffs. Other research interests include energy feedback and energy education. He was seconded to BEIS during 2017-18, and in 2013 undertook a POST/EPSRC Fellowship in the House of Commons Library (briefing MPs on subjects in science and the environment). Prior to joining UCL he was the energy commissioning editor at Earthscan (a leading publisher of books and journals in sustainability).

Pamela Fennell – (PhD, UCL) **Research Associate at UCL Energy Institute**



Pamela Fennell is a research associate in the UCL Energy Institute. Her current work involves the dynamic simulation modelling of the energy consumption of urban centres in India. It also includes further development of modelling tools to reflect the urban contexts being modelled. With a background in engineering and the construction industry, her research interests include the application of stochastic modelling and sensitivity analysis to explore the balances of risk and reward for participants in projects. Pamela was awarded a PhD in March 2018 for research which used stochastic modelling to explore the impacts of project scale, scope and risk allocation on financial returns for clients and contractors engaged

in energy performance contracts in UK schools..

Louis Fifield – PhD, Loughborough University



Louis Fifield is a mechanical engineering graduate from the University of Manchester. He completed his final year project on hospital energy consumption and saw the CDT as way to further his interest in on the topic.

Being one of the first cohorts on the program he enjoyed completing an MSc in Low carbon building design and modeling where his research focused on monitoring Leicester city's urban heat island.

Louis has just passed his PhD viva with corrections, his project combined his interest in hospitals and monitoring to carry out an investigation of energy consumption in UK

hospital buildings.

Stephanie Gauthier (PhD, UCL)

Lecturer in Energy and Buildings, University of Southampton



I completed my PhD in spring 2015. Prior to joining the London-Loughborough CDT, I worked for over eight years in consultancy mostly focused in building and infrastructure. As an architect and project manager in multi-disciplinary design teams, I collaborated on schemes in Abu Dhabi, UK, France and China; including the Oriental Art Centre in Shanghai, the King Alfred Development in association with Gehry Partners, BSkyB broadcast centre in London and Abu Dhabi National Stadium. I am a Lecturer in Energy and Buildings and the Admission Tutor for Civil Engineering at the Faculty of Engineering & Physical Sciences at the University of Southampton.

I teach statistics and building physics to MSc and 4th year MEng Civil Engineering students. My research revolves around energy demand at building scale with a focus on occupants' wellbeing and the thermal performance of buildings. I am currently working on a range of research projects addressing fuel poverty, social care, low carbon technologies uptake in UK homes and the trial of technologies in district heating networks in Europe

Virginia Gori (PhD, UCL)

Research Associate, UCL Energy Institute



Virginia is a Research Associate in the physical characterisation of buildings at the RCUK Centre for Energy Epidemiology (UCL Energy Institute) and part of the Physical

Characterisation of Buildings group. Her PhD thesis, entitled "A novel method for the estimation of thermophysical properties of walls from short and seasonal-independent insitu surveys", combined Bayesian statistics, building physics and physical monitoring of insitu buildings to evaluate the thermophysical performance of building elements. The method developed showed the ability to provide robust estimates of the thermophysical properties of building elements using shorter monitoring campaigns than the incumbent

method and collected at all times of the year.

Virginia has a keen interest in exploring the thermal performance of buildings by means of monitoring campaigns, building physics, modelling and data analysis. Virginia's research interests build on her engineering background, her MRes in energy demand studies, and previous research on the energy demand of urban neighbourhoods.

Sven Hallin - PhD, Loughborough University



I originally qualified with an Economics degree at Trinity College Dublin and on completion joined a UK multinational and was trained in the development and manufacture of a variety of surface coatings. After originally working in the UK, I then worked as an expatriate in Africa and the Far East before returning to the UK and starting my own manufacturing business specialising in the production of screen printing ink. This business was sold after eighteen years, and after a short period of retirement I undertook an MSc in Real Estate at Nottingham Trent University which was completed in 2010.

After completing a MRes in Energy Demand Studies in 2012, my PhD project entitled “Reducing residential sector dependence on fossil fuels: a study of motivating factors” was completed in 2015.

Richard Jack (PhD, Loughborough University) Energy Solutions Engineer, Willmott Dixon Energy Services Limited



I completed my PhD in 2015, having had a (mostly) fun and enlightening time in Lolo. Completing a PhD is necessarily an introspective process at times, but being a part of the Lolo really helped me to keep an outward-looking perspective which helped to make my work more relevant to others and generally made life more interesting.

After completing my PhD I worked as a research associate at Loughborough University for a year, and then moved to Willmott Dixon Energy Services as an energy solutions engineer in March 2015. I specialise in performance measurement and assessment of buildings and building systems, and continue to apply the research that I completed during my time in

Lolo.

Thomas Neeld – PhD, UCL



After graduating with a first class master’s degree in Physics I went on to spend two years working with IBM as a Technology Consultant in their Business Analytics unit, working closely with some of the biggest energy companies. After which I aimed to go back into university and pursue a PhD within the broad field of Energy in order to specialize. In my spare time I am a keen rower and row for London Rowing Club along the Embankment at Putney with the ultimate aim of winning at Henley.

Ashley Morton – PhD, Loughborough University



Ashley has a background in Chemistry and Energy after completing a MChem (with industrial experience) and an MSc at Heriot Watt University. She joined the LoLo CDT in 2011.

For her Master’s Ashley has undertaken dissertations in computational chemistry (MChem), fuel poverty (MSc) and temperature variation in homes (MRes). In 2012 she joined the EPSRC funded DEFACTO: Digital Energy Feedback and Control Technology Optimisation project to undertake her PhD. She submitted her thesis “Heating use in UK homes” for examination at the start of Oct 2016. Currently Ashley

is working as the Cohort Interaction Research Associate on the DEFACTO project.

Paula Morgenstern (PhD, UCL) Building Performance Manager, BAM Construct UK



Paula has a background in building services engineering and now works as the first building performance manager for BAM Construct UK, who are largely a main contractor but to a smaller extent also handle building design, facilities management and property development. Her role aims to develop the companies' strategy and capability to deliver buildings that perform in practice; avoiding performance gaps on energy, carbon as well as other building objectives. Post occupancy evaluations and the feeding back of lessons into new projects are key tools for this.

Prior to starting at BAM, Paula worked as research associate for the 'Total Performance of Buildings' project at the UCL Institute of Environmental Design and Engineering. Her LoLo-funded PhD, which she completed with the UCL Energy Institute in 2016, presented a socio-technical analysis of pathways to reducing hospital electricity use. Working across 10 departments in 3 NHS hospitals, she proposed a context-sensitive process to identifying spaces where simple operational changes could reduce resource use. Her work also highlighted the importance of forums involving energy and facilities managers, interested clinicians as well as health administrators and equipment technicians to help demystify clinical processes and enable the questioning of business as usual, even in sensitive environments such as hospitals.

As a trained engineer, my background provides me with a robust understanding of technical systems, as well as a liking for rules of thumb and orders of magnitude. I do however strongly believe that technology will not deliver in isolation, but has its place within a wider context of social, political and economic factors and priorities. As such, my interests are in how low carbon technologies can be implemented in real world settings, while achieving equitable outcomes for a wide range of stakeholders. I regularly work with local authorities, NHS trusts, grassroots community organisations as well as built environment professionals from all parts of the property life cycle and enjoy facilitating new insights from setting up unusual collaborations.

Moira Nicholson (PhD, UCL) OFGEM



Moira has recently submitted her PhD thesis on consumer participation in demand-side response. She now works in the Behavioural Insights Unit at Ofgem.

Using behavioural science to increase consumer adoption of time of use electricity tariffs: evidence from survey and field experiments

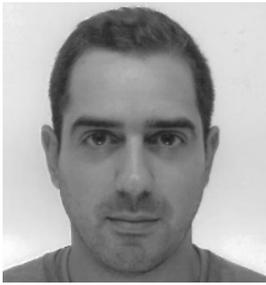
A challenge for realising the benefits of smart meters, promoting energy security and decarbonising electricity is encouraging domestic consumers to switch from flat-rate electricity tariffs to a new generation of time of use (TOU) tariffs.

In a marked departure from the existing literature, this thesis argues that opt-out enrolment (a type of 'nudge') is unlikely to be a suitable method of recruiting consumers onto TOU tariffs, even though it could achieve almost universal enrolment.

The first study shows that half of British energy consumers are unable to make informed choices about the cost-effective tariff for them, particularly those in low socio-economic grades. Consumers are therefore unlikely to opt-out of being switched onto a TOU tariff, even when unsuitable. Results from three further studies covering a collective sample size of 16,000 participants, show that tailoring the marketing of TOU tariffs towards electric vehicle (EV) owners increases demand for TOUs amongst EV owners whilst reducing demand amongst non-EV owners, who pose less of a burden to the electricity network and are less likely to save money from switching. Unlike opt-out enrolment, tailored marketing is an 'effective and selective' nudge (Johnson, 2016). Unlike personalised defaults, tailored marketing can achieve informed consent.

The results have implications for multiple 'smart' energy programmes, from signing up to TOU tariffs or direct load control contracts to participating in vehicle-to-grid services. In each case, a decision will need to be made about whether consumers will be left to opt-in or opt-out of such services, and to what extent it matters that consent is informed.

Argyris Oraopoulos – PhD, Loughborough University



Argyris joined the LoLo CDT in 2012 where he completed his MRes on Energy Demand and his PhD on the development of an empirical model that is able to predict overheating in UK homes using descriptive time series analysis. He then worked as a Research Associate at Loughborough University looking at urban scale energy modelling. Currently he is employed as a Research Officer at the Association for the Conservation of Energy (ACE) working on energy policy.

Argyris' research interests include:

Overheating (criteria & predictions); Time Series Analysis & Empirical Modelling; Dynamic Thermal Simulation Modelling; Occupant Behaviour & Attitudes; Energy Policy; Public Engagement & Education (STEM & EWB Ambassador)

Sofie Pelsmakers (PhD, UCL) Assistant Professor, Tampere University



My passion is for teaching, practice and research that makes a difference and responds to current societal and environmental challenges. I am a chartered architect (ARB/RIBA) with over 15 years of experience in designing, building and teaching sustainable architecture. My specialty is sustainable architecture and ecological, low energy, affordable housing design and housing retrofit. I am particularly interested in how buildings and spaces work in reality, and how buildings are used and change over time (i.e. actual performance and user satisfaction).

In July 2016, I completed my PhD at the Bartlett, Faculty of the Built Environment at UCL (London) on the retrofit of the existing pre-1919 housing stock, in particular investigating ground floor heat loss, using in-situ U-value measuring techniques. Since 2001 I have held lectureships at the University of East London, Sheffield University, Aarhus School of Architecture (Denmark) and I am now Assistant Professor (tenure track) at Tampere University (Finland), where I chair the Sustainable Housing Design research group (www.sustainablehousingdesign.com).

Throughout my work I seek out collaborations and projects which put diversity at its heart. In my work I also attempt to bridge the information gap between research and architectural practice. As such, I authored 'The Environmental Design Pocketbook, a comprehensive publication which distils environmental science, legislation and guidance into one easy to use single source, now in its 2nd edition, and a 3rd edition is in the works.

Daniel Quiggin (PhD, Loughborough University) Senior Policy Advisor in the EU Exit, Energy and Climate directorate – BEIS



Daniel is a at the Department for Business, Energy and Industrial Strategy (BEIS), working in the EU Exit, Energy and Climate directorate. Prior to this, Daniel was a Research Fellow in the Energy, Environment and Resources department of Chatham House, working on a wide range of projects, such as; advising the Chinese government on global energy governance policy, analysis of macro electricity sector trends impacting the business models of utilities, assessing the evolution of mobility (focus on EVs) and the potential resource scarcity of critical metals. Prior to Chatham House, Daniel was an Analyst at Investec Asset Management on the second largest Commodities and Resources investment

fund in the City of London, responsible for global oil and renewable energy modelling and company analysis.

Since completing his PhD through LoLo in 2014, Daniel has worked for the second largest energy investment fund in the City of London, a global think tank advising the Chinese Government on climate policy, and the UK Government on Brexit energy and climate policy.

Ella Quigley – PhD, Loughborough University



I have a background in mechanical engineering but I have long been interested in building energy use and sustainability. This led me to join the LoLo CDT at Loughborough University, where I undertook an MSc in Low Carbon Building Design and Modelling, followed by a PhD concerning the energy and thermal performance of steel modular residential buildings in the UK. I completed my PhD in August 2016; I am currently writing research papers about energy use and overheating in my case study buildings, and beginning to look for an interesting career in building performance and sustainability

Ed Sharp (PhD, UCL) Developer at Mastercard



I am currently working as a developer in a research focused data science team at Mastercard. The team uses AI and machine learning to develop models of financial crime using payments data. These models are then applied to real time data to identify and stop scams and money laundering and repatriate funds.

I apply the knowledge and skills I gained at UCL on a daily basis and value my time as part of the CDT immensely, as much for the network of friends and colleagues I gained as the Doctorate.

Kate Simpson – (PhD, Loughborough University) Imperial College London/ The Alan Turing Institute



Kate's research specialism is domestic retrofit, currently the use of data in decision-making. This project welcomes industry and academic engagement. Previous research includes installer' perspectives and skills for retrofit; fuel poverty alleviation and smart city development. Her PhD focused on owner-occupied householder' retrofit experiences and outcomes in terms of space heating energy use, air permeability, temperature and comfort; MRes on indoor air quality of a Victorian school. Revitalising old buildings is a passion which led to initial training and work as a building surveyor. Kate aims to inform policy and inspire public support for minimum-risk, socially beneficial zero carbon transitions.

Sam Stamp (PhD, UCL)
Teaching Fellow in Building Performance,
UCL Institute for Environmental Design & Engineering



Joining the LoLo CDT in its second year, Sam completed his PhD in 2016, where he looked at assessing uncertainty in whole building heat loss or co-heating tests. Upon completion, Sam began working as a Teaching Fellow in Building Performance as the UCL Institute for Environmental Design & Engineering. Here, Sam's interest and expertise in field measurements and monitoring has led to his involvement in a range of projects, investigating aspects of energy and environmental performance in domestic and non-domestic buildings. This includes investigating air quality, occupant behaviour, indoor environmental quality and thermal performance. Sam

is part of the teaching team for a recently established undergraduate (MEng Engineering and Architectural Design) a multidisciplinary collaboration with the Bartlett School of Architecture and Civil and Geomatic Engineering. The innovative course aims to combine architectural knowledge and vision with a robust understanding of engineering for the built environment.

Victoria Tink – (PhD, Loughborough University)
MHCLG



I graduated from LoLo last year, having completed my PhD entitled The effect of internal wall insulation in solid wall dwellings on energy demand, thermal comfort and overheating. This study used measurement and simple modelling techniques to characterise and monitor the performance of solid wall homes before and after energy efficiency retrofit. I briefly worked as a researcher with a fellow LoLo alumni, Sofie Pelsmakers, on research into floor U-values. I now work for the Ministry of Housing, Communities and Local Government as a building scientist, where I lead on the standards for new homes in the Building Regulations..

Faye Wade (PhD, UCL)
ClimateXChange Postdoctoral Research Fellow at the University of Edinburgh



Faye is currently a ClimateXChange Postdoctoral Research Fellow at the University of Edinburgh, working on a social evaluation of the Energy Efficient Scotland programme; the Scottish Government's cornerstone strategy for reducing energy consumption and decarbonising heat in the built environment. This project involves interviewing members of local authorities across Scotland; conducting a large social survey with building occupants; and working closely with policy makers. Faye is leading on the publication of academic papers and policy reports from this project; the reports are published on the Scottish Government website. Faye has also been

a member of the Scottish Government's Short Life Working group on skills and the supply chain and her research has been cited in the development of Building Regulations by UK Government, and incorporating broader supply chains in energy policy strategies by the Scottish Government and Energy Saving Trust. Faye is also an Associate Editor on the peer-reviewed international journal: Buildings & Cities.

Prior to her current role, Faye worked as a Career Development Fellow at the University of Edinburgh. In this post, Faye taught courses on Energy Policy & Sustainability, Investigating Energy Consumption and Science & Society; she is a Fellow of the Higher Education Academy. With LoLo, Faye's PhD was an ethnographic investigation of how, through their work, heating engineers can shape the central heating technologies installed in homes and how they come to be used. This is published in four academic papers with another currently under review.

Peter Warren (PhD, UCL)
Head of Climate Finance for Innovation and Technology,
Department for Business, Energy & Industrial Strategy (BEIS)



Peter leads the UK Government's international climate finance for innovation and technology. This includes managing a team with a clean energy innovation/RD&D-focused portfolio of around £700 million for climate change mitigation in developing countries (including demand-side energy issues). Peter is also the international policy lead for sustainable cooling, industrial decarbonisation and energy storage. He is a regular speaker and panel Chair at international events, such as COPs, Summits and practitioner conferences.

Peter completed his PhD at UCL on the mechanisms behind the success and failure of global energy efficiency and demand response policies. Since completing his PhD, he continues to teach part-time through a module on Energy and Climate Policy that he established in the UCL School of Public Policy, and has supervised Masters dissertations since 2014. Peter continues to publish academic work on climate finance. Peter is a Chartered Environmentalist (CEnv) and his previous degrees (MRes, MSc, BSc and PgC) have all been in the energy and climate field from different disciplinary perspectives.

After completing his PhD in 2015, Peter worked in the International Energy Agency (IEA) in the energy efficiency unit, focusing on energy efficiency policy in India and global analysis on energy efficiency in SMEs. Since then, Peter has spent the last four years working in the UK Government on energy policy issues, first in the former Department of Energy and Climate Change (DECC) leading the department's analytical work on smart technologies, then as a Senior Policy Advisor in international climate policy and finance, and now in his current position. Peter previously spent 2.5 years as the Sustainability Manager for a London-based SME and was Chair of the Board of the Camden Climate Change Alliance for four years.

Catherine Willan – (PhD, UCL)
Teaching Fellow at UCL Energy Institute/ Institute of Sustainable Resources



Catherine obtained an MRes in Energy Demand Studies from UCL in 2015, and recently completed her PhD with the LoLo programme. The PhD research was carried out in partnership with a large UK construction company, and explored how energy targets are managed in complex non-domestic build projects. Theoretical concepts from Science and Technology Studies were used to reveal practical insights around the potential influence of construction professionals 'practices and discourse on the eventual energy performance of their projects.

Before joining LoLo, Catherine worked for many years in the low carbon sector. At the Carbon Trust in London, she worked in policy, strategy and business planning, where she took part in the development of PAS2050 – the world's first standard for product carbon foot printing – and its accompanying carbon label. She also undertook research into global carbon trading mechanisms, greenhouse gas reporting, carbon saving strategies for large corporates and many other product and policy development areas, working with a wide cross-section of government and industry stakeholders. Subsequently, she joined the EOI business school in Madrid, where she taught and supervised postgraduate students on the International Master in Sustainability and Corporate Responsibility programme.

Catherine is now working as a Teaching Fellow for the Energy Institute and the Institute of Sustainable Resources at UCL.

Selin Yilmaz – PhD, Loughborough University



Selin's research aims to develop a high resolution residential electricity demand model to provide insights into the amount of flexible demand that can be available for shifting in the UK residential sector. She has MSc on Renewable Energy Science and Technology from Ecole Polytechnique in France where she worked on organic photovoltaics. She has graduated from the Chemical Engineering Department from Middle East Technical University in Turkey.

NOTES

London-
Loughborough EPSRC
Centre for doctoral
training in energy demand

info@lolo.ac.uk
www.lolo.ac.uk
@LoLoCDT



UCL Energy Institute
Central House
14 Upper Woburn Place
London WC1H 0NN

www.ucl.ac.uk/energy
@UCL_Energy



Loughborough University
Department of Civil &
Building Engineering
Leicestershire LE11 3TU

www.lboro.ac.uk/civil
@LboroCBE



Loughborough
University