UCL Environment Domain: Urban Working Group

Co Chairs – Professor Nick Tyler and Professor Dan Osborn

Strategic Research Facilitator – Dr Becca Burns

Twitter @environ_domain #UCLEnvironment

Environment@ucl.ac.uk
UCL Environment Domain

The UCL Research Domains are large, cross-disciplinary research communities that span UCL and our partner organisations, fostering interaction and collaboration.

There are 8 research domains at UCL: Neuroscience, Personalised Medicine, Populations and Lifelong Health, Cancer, Environment, eResearch, Collaborative Social Science and Food, Metabolism and Society.

“UCL Environment Research Domain aims to bring together the depth and breadth of environmental expertise at UCL and promote cross disciplinary action from a range of theoretical perspectives to make our subject specific expertise greater than the sum of its parts.”
**Research Facilitation**

Support researchers to identify potential funding sources for their research and to develop strong applications with the best possible chance of success.

Coordinating and developing large-scale strategic bids and, where appropriate, providing central management of responses to research funding calls.

- **Supporting** research bids and proposals via 1:1 bookable sessions, briefings, mock interviews and proposal feedback
- **Communicating** funding opportunities via the monthly news bulletin, the website and twitter
  - **Sharing** outcomes and research practices
  - **Co-ordinating** responses to funding calls - including NERC standard grants

**Community Building**

Support academic and research staff overcome barriers to collaboration across disciplines in their research, innovation and educational activities.

Build ambitious, well-connected, interdisciplinary research communities, which connect researchers who might not have previously collaborated.

- **Events:** community building workshops, Environment Domain Launch Event and more to come
- **Networks:** EDEN, Working Groups, Strategic Advisory Board
- **Communications:** blogs, articles, news bulletin, twitter
- **Collaborations** with: UCL Press, Research Domains, BEAMS team, UCL Public Policy, EDEN, external
Get involved

• **Workshops:**
  • Tuesday 11 December EDEN End of Year Networking Event

• **Working group theme leads and supports** – contact environment@ucl.ac.uk if you’re interested

• Submit notices for the news bulletin, website or twitter

• **Launch Event:** 31 January 2019

• **Add the Environmental Theme to your Iris profile to join the list of researchers on Environment Domain Website**

• EDEN
Find out more

- Environment@ucl.ac.uk
- Twitter @environ_domain
- Website: https://www.ucl.ac.uk/research/domains/environment
EDEN (Environment Domain Early-Career Network)

Our aims:
Promote multidisciplinary research
Provide a platform for peer support, career advice, mentoring, training, funding information, etc.
Identify and highlight key needs of early-career researchers
Bring key themes that UCL environment researchers are working on to the fore
Promote work-life balance, equality, diversity and inclusion

Upcoming events:
EDEN End of Year Networking Event: Tuesday 11 December- Lunch Provided
Career talk: Do’s and Don'ts of The Early Academic Career (at AGM in early February 2019)
EDEN Writing Group (ongoing)
Spring term seminar series?

How to join us:
Mailing list subscription link on EDEN webpage: http://www.ucl.ac.uk/research/domains/environment/eden
Email: vpro.eden@ucl.ac.uk
Twitter: @UCL_EDEN
What is UCL Public Policy?

UCL Public Policy connects researchers with policy professionals, to inform policy with evidence.
… how UCL Public Policy works…

- Academic-policy roundtables
- Training Policy 101
- Policy Fellowships
- Small Grants

- Policy Commissions
- UCL Public Policy Board
- UCL Policy Champions
- Policy Dialogues

Bespoke Model!
Keep Up to Date

Policy Postings
Building connections between research and policy

Tilting the Balance
Alexander Nia, of the now defunct Cambridge Analytica, observed that to drive human actions a narrative doesn’t have to be true, it just...

Using the Corporate Toolkit to Fix Public Ills
Conventional thought dictates that the role of government is to regulate and the role of business is to generate profits.

Why Connect Research and Policy?
We asked academics and policy professionals to tell us why they think it is important to connect research and policy.

UCL Public Policy News, events and opportunities: Oct 2018

In this edition:
What would your bug climate policy be? Enter our competition! | Write
Got an Idea? Get in Touch

**UCL Public Policy**

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[www.ucl.ac.uk/public-policy](http://www.ucl.ac.uk/public-policy)
How can we help you?

• **develop and create partnerships** between UCL and industry

• **fund** our academics for knowledge exchange projects

• **train** students to think and act like entrepreneurs

• **facilitate** the creation of short courses and CPD

• **share** UCL expertise through UCL Consultants (UCLC)

• **commercialise** technology through UCL Business (UCLB)
The Innovation Lifecycle

- Ideas
- Knowledge
- Entrepreneurship
- Technologies
- Equipment
- Facilities
- People

The Innovation Lifecycle

- Business
- Healthcare
- Government
- NGOs
- Third sector
- Patients
- Schools
- Public
- Other

Research capability

Absorptive capacity
UCL Press Open Access Megajournal

Ian Caswell
Journals Manager, UCL Press
Open, transparent, and accountable | Diverse research outputs | Universal and unrestricted dissemination

Pre-Print Server Post Publication Open Peer Review

PPSPPPOPR
Author submits to megajournal

Editor checks for suitability

Pre-print server

Paper posted to online pre-print environment for peer review (assigned a pre-print DOI)

Openly signed reviewer reports are posted alongside the paper and assigned a pre-print DOI

Accepted version copyedited and typeset for publication

Published in journal (assigned a journal DOI) with links to previous versions and reviewer comments

Once acceptable, Editor makes accept decision on version

Editor comments on manuscript and peer review reports (i.e. summarising revision recommendations required)

Pre-print server

Author posts responses alongside the paper and reviewer reports

Author decides to revise - new version posted online to pre-print server alongside all previous versions

Pre-print server
Why are we doing this?

“Peer review is the worst form of evaluation except all those other forms that have been tried from time to time”

--with apologies to Winston Churchill

Source: Open Scholarship Initiative Proceedings
UCL signs San Francisco Declaration of Research Assessment

20 January 2015

UCL has signed the San Francisco Declaration on Research Assessment (DoRA), which acknowledges weaknesses in the use of the Journal Impact Factor (JIF) as a measure of quality, since this measure relates to journals as a whole and not to individual articles. Recognising that research results in outputs other than journal articles, DoRA also attempts to identify new routes to research evaluation.

https://sfdora.org/signers/

http://www.ucl.ac.uk/news/staff/staff-news/0115/16012015-ucl-signs-declaration-on-research-assessment
New Results

A simple proposal for the publication of journal citation distributions

Vincent Lariviere, Veronique Kiermer, Catriona J MacCallum, Marcia McNutt, Mark Patterson, Bernd Pulverer, Sowmya Swaminathan, Stuart Taylor, Stephen Curry

doi: https://doi.org/10.1101/062109

This article is a preprint and has not been peer-reviewed [what does this mean?]

https://www.biorxiv.org/content/early/2016/09/11/062109
Why Most Published Research Findings Are False

John P. A. Ioannidis
Published: August 30, 2005 • https://doi.org/10.1371/journal.pmed.0020124

Abstract

There is increasing concern that most current published research findings are false for one basic reason: the probability that a research claim is true may depend on study power and bias, which are unknown constants. Furthermore, if there is an effect in the data, the ratio of true to false positive findings may depend on study power and bias. In this framework, even a study performed to prove the null hypothesis may, in some cases, indicate 'positive' results if the study is not large enough to detect an effect. This does not mean that such research is false: rather, it is not surprising that many published findings are false. This theoretical framework is consistent with recent empirical insights from the scientific literature.
Open Science – some considerations

Jeff Rouder
@JeffRouder

What is Open Science? It is endeavoring to preserve the rights of others to reach independent conclusions about your data and work.
8:47 PM - 5 Dec 2017

Open Science = (Open Outputs + Open Infrastructure) × Culture (change)

Access, reuse & discoverability

Evaluation & Researcher behaviour

(Source: Catriona J. MacCallum)

Image source under CC-BY http://www.codata.org/working-groups/fair-data-expert-group

https://casrai.org/credit/
What we want from you

- Consider submitting
- Feedback – how to get involved
- How open science affects you

www.ucl.ac.uk/ucl-press
Research Presentations
Muki Haklay – Extreme Citizen Science group

• Prof Muki Haklay – Department of Geography
• M.haklay@ucl.ac.uk / @Mhaklay

Research areas: Public Access to Environmental Information, Participatory Mapping/GIS, Usability aspects of Geographical Information, Citizen Science

Co-director: Extreme Citizen Science group & Mapping for Change C.I.C
Past & Present research

1990s
- Public Participation GIS (PPGIS)
- Participatory GIS (PGIS)

2000s
- Volunteered / Crowdsourced Geographic information
- Participatory Sensing

2010s
- Citizen Science
Future direction & current interests

• Further development of Citizen Science and Participatory Mapping in urban context (including in informal settlements and developed places)

• Developing on the insights from DITOs (engagement levels)

• Understanding the mechanism for participation and outreach, and improving it

• Extending to new research areas

• Funding search: in particular for open collaborations beyond academia
WANG Kai  
Research Associate,  
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Research topic:  
**Built Environment and Urban Climate**

- Impact of building morphology and materials on the temperature, humidity and air flow.
- Impact of urban humid heat on building energy consumption, human comfort and health.
• Daily and annual temperature cycles (mean, amplitude, phase lag)
• Urban cool island
• Urban scale model: Stone Forest (石林)

- High-rise compact city/stone forest: daytime cool island
- Low-rise sparse: both daytime and night heat island
Current research project:
Disaster Resilient Cities: Forecasting Local Level Climate Extremes and Physical Hazards for Kuala Lumpur (Innovate UK)

- **Building morphology** – density; heterogeneity...
- **High temperature** – cooling load; energy consumption...
- **High humidity** – human comfort; energy consumption; rainfall...
- **Low wind** – poor dispersion; urban heat; air pollution...
- **Indoor environment** – ventilation; indoor air pollution; dehumidification...

Monitoring (Different land use areas in KL)
Forced migration and adolescent mental health
Understanding the cultural determinants of mental health in a context of mass displacement

Image credit: CatalyticAction
Youth Prosperity Index

London Prosperity Board
https://londonprosperityboard.org/
Hannah Sender
hannah.sender@ucl.ac.uk

PhD student, Development Planning Unit

Projects, Planning and Advocacy Manager, Institute for Global Prosperity

Image credit: CatalyticAction
Researching Urban Infrastructures in the Context of Mass Displacement

Dr Hanna Baumann

Institute for Global Prosperity, The Bartlett
Research Strand 1: The Vital City

Prosperity in the age of mass displacement (April 2017 – March 2022)

Public Services and Vulnerability in the Lebanese Context of Large-Scale Displacement (September 2017 - July 2019)

Urban dis/connections: Infrastructures of refugee integration in Beirut and Berlin (January 2019 – December 2021)
Participatory workshop on infrastructures & vulnerability
15-20 October, Bar Elias, Lebanon