Designing, building and managing sustainable, productive and liveable cities
Our research objective

Design, build and manage sustainable, productive and liveable cities.
Our research strengths

- Housing, urban policy and planning
- Construction management and risk
- Sustainable design and development
- History, theory and creative practice
- Urban informatics
- High performance architecture

At a glance

- **$4m** Total ARC Grant Funding 2010–15
- **$10.5m** Total Research Income 2012–14
- **65** Staff, full time lecturer and above, at 1 July 2015

- **481** Research Publications 2012–14
- **70** Higher Degree Research Completions 2010–15

**National Research Performance**

Built Environment and Design (FOR12) and Urban & Regional Planning (FOR1205) received the highest ratings nationally in ERA 2015

**Top 10 Research Sponsors 2012–14**

- Australian Government: Department of Education and Training
- Australian Government: Department of Health and Ageing
- Australian Government: Office for Learning and Teaching
- Australian Housing and Urban Research Institute
- Australian Research Council
- Caroma Industries Limited
- CRC for Low Carbon Living
- NSW Department of Health
- NSW Department of Education
- NSW Family and Community Services: Ageing, Disability and Home Care
### Currently funded projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Funder</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addressing Concentrations of Social Disadvantage</td>
<td>AHURI1</td>
<td>$721,226</td>
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<tr>
<td>City Living: Urban consolidation and the social sustainability of cities</td>
<td>ARC2 Future Fellowship</td>
<td>$681,210</td>
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<td>Urban Inequality: The initiation and preservation of spatial privilege in Australia’s elite suburbs</td>
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<td>Implementing Metropolitan Planning Strategies</td>
<td>ARC Linkage</td>
<td>$310,358</td>
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<td>The Role of Investor Landlords in Restructuring Australia’s Major Cities</td>
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<td>Sydney Housing Demonstrator Data Hub</td>
<td>AURIN3</td>
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<td>Planning in a Market Economy: The case of the compact city</td>
<td>ARC Discovery</td>
<td>$270,000</td>
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<td>Longitudinal Evaluation of Riverwood North Regeneration Project</td>
<td>Payce Communities Pty Ltd</td>
<td>$233,384</td>
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<td>Renewing the Compact City</td>
<td>ARC Linkage</td>
<td>$229,193</td>
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<tr>
<td>Housing Affordability, Central City Economic Productivity and the Lower Income Labour Market</td>
<td>AHURI/City of Sydney</td>
<td>$181,394</td>
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<tr>
<td>Building Australia’s Affordable Housing Industry Capacity: A review and pointers for a road-map</td>
<td>AHURI</td>
<td>$164,421</td>
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<tr>
<td>Inquiry into Affordable Housing Industry Capacity</td>
<td>AHURI</td>
<td>$161,255</td>
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<tr>
<td>Recent Housing Transfer Experience in Australia: Implications for industry development</td>
<td>AHURI</td>
<td>$149,025</td>
</tr>
</tbody>
</table>

1 Australian Housing and Urban Research Institute
2 Australian Research Council
3 Australian Urban Research Infrastructure Network
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Funding</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Validating and Improving the BASIX Energy Assessment Tool for Low Carbon Dwellings</td>
<td>$482,488</td>
<td>Using the BASIX tool, researchers are improving its accuracy in assessing energy consumption in low carbon dwellings.</td>
</tr>
<tr>
<td>Closing the Loop on Evidence-based Low Carbon Design of Non-residential Buildings</td>
<td>$404,245</td>
<td>The project focuses on closing the current knowledge gap in designing low carbon non-residential buildings.</td>
</tr>
<tr>
<td>CRC-LCL Node of Excellence in High Performance Architecture</td>
<td>$349,000</td>
<td>Establishing a node of excellence to advance the field of high performance architecture.</td>
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<tr>
<td>Sustainable and Affordable Living through Modular, Net Zero Energy, Transportable, and Self-Reliant Homes and Communities</td>
<td>$160,732</td>
<td>The project aims to make living more sustainable and affordable through the implementation of modular, net zero energy homes.</td>
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<tr>
<td>Comparative Study of Major Contributors to the Urban Heat Island Effect in Three Australian Cities</td>
<td>$95,000</td>
<td>The study focuses on identifying major contributors to the urban heat island effect across three Australian cities.</td>
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<tr>
<td>Energy/Carbon Disclosure at the Building Retrofit Investor-user Interface</td>
<td>$63,000</td>
<td>The project addresses energy and carbon disclosure in building retrofits.</td>
</tr>
<tr>
<td>Quantifying the Contribution of Green Infrastructure to Carbon and Energy Performance</td>
<td>$55,000</td>
<td>Quantifying the role of green infrastructure in reducing carbon emissions.</td>
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1. Led by Built Environment
Research Clusters

Smart Cities
Investigating how ICT and geospatial technologies can make cities more inclusive, sustainable and resilient.

Design Research Collaboration
Thinking through making: collaborative design-based research for the 21st century city.

People and Place
Enhancing the everyday quality of people and place relationships in cities.

Urban Typologies
Exploring multi-disciplinary perspectives on the history and development of urban and suburban environments.
Enabling Built Environments Program

$804,793
Project: Home Modification Information Clearinghouse Service
Funders: Australian Department of Social Services; and Ageing, Disability and Home Care agency of the NSW Department of Family and Community Services

$446,000
Project: Liveable Bathrooms for Older People: Designing out dependence in activities of daily living
Funder: ARC Linkage

‘Maximising the liveability outcomes for all Australians, irrespective of age or impairment.’

Associate Professor Catherine Bridge
Director, Enabling Built Environments Program

Australian Housing and Urban Research Institute (AHURI)

Recent UNSW-led AHURI-funded projects
- Addressing Concentrations of Social Disadvantage
- Building Australia’s Affordable Housing Industry Capacity
- Cost Effectiveness and Tenant Outcomes in Social Housing
- Housing Affordability, Central City Economic Productivity and the Lower Income Labour Market
- Inquiry into Affordable Housing Industry Capacity
- National Disability Insurance Scheme, Housing Assistance and Choice and Control for People with Disability
- Recent Housing Transfer Experience in Australia

‘Our research informs live policy debates on a range of housing-related agendas.’

Professor Hal Pawson
Director, UNSW-AHURI Research Centre
# Current Australian Research Council projects¹

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<td>approaches to urban redevelopment in a complex multi-stakeholder</td>
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<td>Designing Global Sydney: The negotiation of public and private</td>
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<td>$184,582</td>
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<td>Living Together: The rise of multigenerational households in</td>
<td>ARC Discovery</td>
<td>$171,051</td>
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1 Led by Built Environment

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### Building Gender Equity and Diversity in the Australian Construction Industry

ARC Linkage Grant LP130100402

**Partners:**
- Loughborough University
- Lend Lease Communities
- Brookfield Multiplex Ltd
- Australian Human Rights Commission
- Diversity Council Australia Limited

‘Despite years of attempted reform, the barriers for women in construction remain.’

Professor Martin Loosemore
Professor of Construction Management
Urban Science

‘Urban Science uses data, networks and flows to better understand how cities work.’

Professor Chris Pettit
Professor of Urban Science

Judith Neilson Chair (Humanitarian Architecture)

‘Building resilience among vulnerable urban populations to disasters and emergencies.’

Professor David Sanderson
Judith Neilson Chair in Humanitarian Architecture
‘Advancing scientific technologies to deliver architectural excellence and urban amenity that is responsive to environmental, social and economic challenges.’

**Professor Mat Santamouris**
Anita Lawrence Chair in High Performance Architecture

Designing façades to learn from and adapt to nature

**Associate Professor Francesco Fiorito**

Rethinking sustainable high-rise buildings

**Dr Philip Oldfield**

*New appointments*
‘We have a culturally diverse student cohort, and a very supportive academic environment with access to the best resources and first class facilities.’

Anjalika Wijesurendra
PhD Candidate

‘We provide our research students with dedicated support and facilities, but also an environment that encourages them to learn from, and collaborate with, their peers.’

Dr Judith O’Callaghan
Director of Postgraduate Research