**NSW Population and Health Services Research Ethics Committee – Peer Review Report Template**

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| 1. **CURRENT PROJECT DETAILS: To be completed by the applicant** | |
| **(a) Project Title** | Australian Urban Health Indicators (AusUrb-HI): Urban Heat, Liveability and Health study |
| **(b) Coordinating Principal Investigator details** |  |
| Name and Title: | Tracy Baylis |
| Organisation and Centre/Section: | Australian Urban Research Infrastructure Network (AURIN) |
| Position in the organisation: | Strategic Planning & Implementation Manager |
| Email Address: | tracy.baylis@unimelb.edu.au |

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| 1. **PEER REVIEWER CONTACT DETAILS : to be completed by the peer reviewer** | |
| (a) Name and title | Dr Qian (Chayn) Sun |
| (b) Organisation and Centre/Section | Geospatial Science, STEM College, RMIT University |
| (c) Position in the organisation | Senior Lecturer |
| (d) Approximately how long have you held this position? | Two years |
| (e) Contact details  Email:  Telephone: | Email: chayn.sun@rmit.edu.au  Office: +61 3 99255227 |

| 1. **IMPARTIALITY AND INDEPENDENCE: To be completed by the peer reviewer** | | |
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| The aim of this section is to establish your ***impartiality*** and ***independence*** with respect to the investigators and the proposed research.  *Refer to the NHMRC* [*Principles of Peer Review*](https://www.nhmrc.gov.au/about-us/publications/principles-peer-review) *and chapters 6 and 7 of the* [*Australian code for the Responsible Conduct of Research*](https://www.nhmrc.gov.au/guidelines-publications/r39) *(Code of Conduct) for guidance.* | | |
| Have you collaborated with, or co-authored publications with, any of the named investigators in the **last five years**? | **NO** | **If YES, please describe:** |
| Please note any other potential conflicts of interest, such as   * Involvement with the application being reviewed * Teaching or Supervisory relationships * Employment arrangements * Any other relationship that may, or may be seen to, impair fair and impartial judgement. | **NO** | **If YES, please describe:** |
| Please briefly outline the nature of your professional relationship with the Principal Investigator and the research team.  **If you think there may be a conflict of interest, please contact the PHSREC Secretariat on** [**cinsw-ethics@health.nsw.gov.au**](mailto:cinsw-ethics@health.nsw.gov.au) | **I work in STEM College, RMIT University, while CI A/Prof Melanie Davern is from DSC College, RMIT University.**  **I have been working on an AURIN High Impact project since June 2021, while Prof Stuart Barr is the director of AURIN, but none of the CIs has been directly involved in my project.** | |

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| 1. **PEER REVIEWER EXPERTISE: to be completed by the peer reviewer** | |
| (a) Please list your professional qualifications  *A list is fine: do not attach a CV* | **PhD in Spatial Sciences**  **Master in Sciences, focused on GIS**  **Bachelor in Sciences** |
| (b) In what way do you consider that your areas of expertise are relevant to this research? E.g. clinical, epidemiological, policy, other subject-matter specific expertise.  *A few short sentences is sufficient: do not attach a CV* | **I have research and professional experience in GIS, epidemiological, policy and urban planning. I completed an AURIN high impact project” Integrated Heat Vulnerability Assessment Toolkit for Australian Cities” and the skills and outputs from this project directly contribute to review this proposal.** |

| 1. **PEER REVIEW REPORT: To be completed by the peer reviewer** | |
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| 1. Please provide a brief plain language summary of the research | **The project proposes to develop new indicators with resulted data assets to improve our understanding of the health of urban populations and identify incidence patterns and key risk factors across the population. There will be three case studies including Cancer Determinants, Heat Health Vulnerability and Urban Liveability & Health. The project will combine health, socio-economic, environmental, climate and built environment datasets to provide a holistic spatially explicit understanding of urban population health. These indicators will allow planners, and policy makers to develop targeted policies and actions, and the outcomes will be shared with the research community.** |
| (b) What is your assessment of the research as a whole?Specifically:   * Do you believe the study objectives can be met? * On what basis is the research methodology scientifically sound? * How does it meet current best practice in the discipline? | **Yes, I believe the study aim and objectives can be met with the well-defined methodology.**  **The proposed data acquisition and tools have been justified and the team has built expertise to perform the proposed analytical tasks.** |
| 1. Please comment on the context and novelty of proposed research.   *Prompts:*   * *Are you aware of any similar projects?* * *Can you comment on how the proposed research builds upon these?* * *How would you describe the likely benefits to the Australian community of the outcomes of this research?* | **Yes, I have done a similar project to assess heat vulnerability in Melbourne and Sydney. I have also done literature review in related works.**  **I can comment that the proposed methodological framework is robust and built upon the conventional IPCC framework with more advanced analytical process, and more comprehensive datasets as input.**  **The products and outcomes of this study will contribute to sustainable development in the study area by developing a method to identify vulnerable communities that require climate change mitigation. It will also enforce policies improving greenspace in these areas, as a heat mitigation and adaptation strategy, which will lead to increasing liveability and produce significant health benefits for communities.**  **It will also enhance communities’ awareness on the impact of urban heat island effect on health and wellbeing.** |
| (d) Regarding the data component of the research, what makes it necessary to obtain the requested data?  Is the data being sought appropriate & sufficient to answer the research question?  Would an alternative data source or study design be preferred? | **The required datasets are necessary, and they were justified based on the proposed conceptual framework as variables to compute indicators and final index.**  **Yes, the proposed required datasets are appropriate and sufficient to achieve the aim and objectives.** |
| (e) In your opinion, does the research team possess the required technical skills and/or expertise to complete the project to a satisfactory professional standard, and in a timely manner?  Would there be a benefit in seeking additional collaborators with other expertise, for example, in record linkage?  *If appropriate, citations for existing peer reviewed publications may be included: one or two is sufficient* | **Yes, based on the justification in the proposal, as well as my communication with the team, I believe that the research team has the required technical and research skills and knowledge to complete the project.**  **It would be beneficial for the project team to collaborate with other AURIN projects CIs or the data team to clean the datasets obtained from different sources.** |
| (f) Other  Please use this section to add any other detail you wish to provide regarding the research.  *For example, do you have any reservations, or requests for additional information, that would clarify the feasibility, validity or importance of the research?* | No |

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| 1. **PEER REVIEWER DECLARATION: to be signed by the peer reviewer who compiled the report** |
| I declare that in preparing this report, I have understood and applied the National Health and Medical Research Council’s [*Principles of Peer review*](https://www.nhmrc.gov.au/about-us/publications/principles-peer-review) as well as chapters 6 and 7 of the [*Australian Code for the Responsible Conduct of Research*](https://www.nhmrc.gov.au/guidelines-publications/r39)(Code of Conduct).  Name and title: Chayn Sun, Senior Lecturer  (Electronic) Signature:  Date: ……25…./05………/………2022. |
| **Please email the completed report directly to** [cinsw-ethics@health.nsw.gov.au](mailto:cinsw-ethics@health.nsw.gov.au)Thank you. |