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| **Name & email supervisor(s):**  Dr Hajira Dambha-Miller [h.dambha-miller@soton.ac.uk](mailto:h.dambha-miller@soton.ac.uk) |
| **Proposed length of internship and when it could take place:**  4-6 week summer research placement between 1st July and 30th September 2021 |
| **Host department:**  Primary Care, Population Sciences and Medical Education, University of Southampton |
| **How will the internship be conducted:**  In person at the university  Virtual/ from home  Both are possible, depending on preference student |
| **Title internship project:**  **Using big data and Artificial Intelligence to understand the wider determinants of health in multimorbidity** |
| **Summary of the internship project:** *(max 250 words, can include hyperlinks to further information)*  Multimorbidity is increasingly prevalent and associated with high rates of mortality and health-care expenditure. Strategies to tackle this have primarily focused on addressing biological aspects of disease, but multimorbidity is the result of and associated with additional psycho-social, economic and environmental barriers. In this study, we are examining wider health, social and environmental determinants that could impact progression to worsening multimorbidity, death and health care usage. The research is using multiple large databases to carry out cohort analyses to quantify these associations. The student will be joining an established team of AI, big data and health care professionals to carry out their own cohort studies. |
| **Learning objectives:** Data analysis and interpretation skills including AI techniques, working with big data and experience of working with cohort data. The student will also develop transferrable team working and communication skills. |
| **How to apply:**  To apply you will need to submit your CV and a short paragraph about:   * why you would like to do it * any research experience or skills you have * what makes you a good candidate for the role   You will need to submit this information by Friday 30th April to Mark Lown ([m.lown@soton.ac.uk](mailto:m.lown@soton.ac.uk)). |