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2025, Pain). Prospective UK evidence shows less educated women as		increased chronic pain prevalence and poorer mental health (Lund et al.,
more likely to report chronic regional pain, while less educated men		
were more likely to report chronic widespread pain than their more		
		educated counterparts. Financial hardship in early adulthood, and across
·		the life course, is also associated with later-life widespread pain (Jay et
al., 2019, BMJ Open). Geospatially, living in areas with high levels of		
health deprivation is associated with increased risk high impact pain		
		development (Jordan et al., 2008, Pain; Lynch et al., 2023, Eur. J. Pain),
		while living in rural areas with low SEP show poorer pain outcomes than
any other group (Zimmer et al., 2021, Pain). Research with racially		· · ·
minoritised groups across such intersects demonstrate disparities		
· · · · · · · · · · · · · · · · · · ·		related to prevalence, severity, and management (Newman and Thorn,

2022, Pain; Letzen et al., 2022. J Pain). And yet, little is known about how gender and these lifespan, socioeconomic, geographical or racial factors intersect with one another to affect pain because researchers in this area have rarely taken advantage of the large datasets needed to explore these complex issues.

The current project will fill this gap by taking a multi-method approach to develop intersectional-lifespan models of pain. It will combine "big data" and qualitative investigation to provide depth and validation of findings with actionable insights. It will do this by taking pre-existing large general health datasets to assess intersecting determinants of chronic pain via advanced machine learning and data linkage methods. This will enable group-level analysis of pain across temporal and spatial dimensions. Inclusion of qualitative methods will provide necessary context leading to more informed recommendations. Combined results of such analyses will enable a predictive, clinically relevant model without sacrificing generalisability or granularity.

The prospective candidate will steer the project from the outset, determining the variables of interest and analytical approaches to be taken, within the scope of achieving the following objectives:

- 1) To understand gender-related psychosocial and geospatial contributions to the development and maintenance of pain impact across the lifespan.
- 2) To identify key intersections and candidate processes for intervention planning.

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