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## Summary

## Biography

I am a Population Ecologist by background, with a PhD on the spatial dynamics of wildlife infectious diseases (University of Liverpool, 1999-2003) and postdoc positions studying cyclic rodent populations (Centre d'Etudes Biologiques de Chizé, France, 2004-5), size-structured population dynamics in laboratory water fleas (University of Exeter, 2006-8) and cattle disease transmission (University of Warwick, 2008-2010).

I came to Bristol in 2010 to work in the MRC Causal Analyses in Translational Epidemiology centre and now in its successor the MRC Integrative Epidemiology Unit. I am a statistical epidemiologist with a particular focus on family linkage methods.

## Activities / Findings

I am a statistical epidemiologist with a particular interest in the additional information that can be gained when we can link family members within large cohort studies. One major field of activity has been the application and development of instrumental variable methods, in particular the use of the exposure in a subject's family member as an instrument. Another is the likely effect of ongoing rises in the age at which people have children, on the health of those offspring.

## Teaching

I teach on three short courses: Introduction to Statistics, Introduction to Rates and Survival Analysis, and Advanced Rates and Survival Analysis. I am also a tutor on the Clinical Epidemiology course for first year Medicine students.

## Keywords

- Family linkage
- Instrumental variables
- Survival analysis
- Sibling comparisons
- Simulated data
- Causality
- BMI

## Memberships

## Organisations

[Bristol Medical School \(PHS\)](#)

## Research groups

- [Medical Statistics in the School of Social and Community Medicine](#)

## Recent publications

- Bhatta, L, Leivseth, L, Carslake, D, Langhammer, A, Mai, X-M, Chen, Y, Henriksen, AH & Brumpton, B, 2019, '[Comparison of pre- and post-bronchodilator lung function as predictors of mortality: The HUNT Study](#)'. *Respirology*.
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- Wade, K, Carslake, D, Tynelius, P, Smith, GD & Martin, R, 2019, '[Variation of all-cause and cause-specific mortality with body mass index in one million Swedish parent-son pairs: an instrumental variable analysis](#)'. *PLoS Medicine*.
- Shaikh, F, Kjøllestad, MK, Carslake, D, Stoltenberg, C, Smith, GD & Næss, &#x, 2;019, '[Birth weight in offspring and cardiovascular mortality in their parents, aunts and uncles: a family-based cohort study of 1.35 million births](#)'. *International Journal of Epidemiology*.
- Bibby, AC, Fonseka, Dd, Carslake, DJ & Maskell, NA, 2019, '[Is pleural infection associated with longer survival in mesothelioma? A population-based cohort study using data from Hospital Episode Statistics](#)'. *Cancer Epidemiology*, vol 59., pp. 75-82
- Carslake, D, Fraser, A, May, M, Palmer, T, Silventoinen, K, Tynelius, P, Lawlor, D & Smith, GD, 2019, '[Associations of mortality with own blood pressure using son's blood pressure as an instrumental variable](#)'. *Scientific Reports*, vol 9.
- Bell, J, Carslake, D, O'Keefe, L, Frysz, M, Howe, L, Hamer, M, Wade, K, Timpson, N & Smith, GD, 2018, '[Associations of body mass and fat indexes with cardiometabolic traits](#)'. *Journal of the American College of Cardiology*, vol 72., pp. 3142-3154
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- Thern, E, Carslake, D, Smith, GD, Tynelius, P & Rasmussen, F, 2018, '[The effect of increased alcohol availability on alcohol-related health problems up to the age of 42 among children exposed in utero: A natural experiment](#)'. *Alcohol and Alcoholism*, vol 53., pp. 104-111
- Wade, K, Carslake, D, Sattar, N, Smith, GD & Timpson, N, 2018, '[BMI and Mortality in UK Biobank: Revised Estimates Using Mendelian Randomization](#)'. *Obesity*, vol 26., pp. 1796-1806

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