

Title: Modelling Joint Lifetimes

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Abstract: The lifetimes of couples are frequently assumed to be independent for the purpose of actuarial calculations. It is well-documented that these lifetimes are not independent. In this presentation, I will review the main approaches to modelling the joint distribution of the lifetimes of couples and comment on the suitability these approaches. Specifically, I will consider copulas, shared and correlated frailty models, and multi-state models.