



Wittgenstein Centre

FOR DEMOGRAPHY AND  
GLOBAL HUMAN CAPITAL

A COLLABORATION OF IIASA, VID/OAW, WU

Nathan Keyfitz Library  
Vienna Institute of Demography  
Welhandelsplatz 2/Level 2  
1020 Vienna

## WIC Colloquium

### On Differential Fertility and the Dynamics of Inequality

Monday, September 30th, 2019

14:00-15:00

No registration required

#### Francis Dennig

Yale-NUS College

We propose a dynamic stochastic model of the intergenerational transmission of capital that accounts for fertility differentials. The evolution of the distribution of capital depends on a parent-to-child capital transmission technology, which captures how capital is diluted across siblings, and on a fertility-capital relationship, which can be rationalised as the outcome of a decision problem in which parents have aspirational preferences over the outcomes of their children. We derive a simple and explicit mapping from fertility and technology to the long run distribution of capital and use our result to characterise the effects of policy interventions on long run inequality.

#### About the presenter

Francis Dennig is Assistant Professor in Economics at Yale-NUS College. He works on issues relating to inequality and to climate change. From theoretical modelling to numerical simulations, he is interested in a wide range of methods. The unifying theme is the use of formal methods to gain insights into important policy questions.