

Doctoral Programme LIVES **Resources and well-being in a life course perspective** February 12-15, 2024

Session on Feb 12, 2024; 9:00 – 10:30

The Life Course Cube

Life course research as an interdisciplinary enterprise



- 1. Disciplines involved in Life Course Research
- 2. A theoretical basis: A model of life course behaviour
- 3. Bringing things together: The Life Course Cube

In between, I will ask questions to the plenum and I will ask you, divided into three groups, to look for examples that illustrate certain points I am making (group work). We discuss them in the plenum.





1. Disciplines involved

- Anthropology (Life history theory)
- Biology (Life cycle of organisms)
- Criminology (Delinquency careers)
- Demography (Cohort analysis)
- Economics (Intertemporal choices and life cycle)
- Epidemiology (Pathways to later health)
- History (Oral History, Biographies, Prosopography)
- Political Science (Life course politics)
- Psychology (Life span develepment)
- Sociology (Individual life course and social change)





Question to the Plenary: Is anything important missing?

What disciplines are involved in your project?

Added: Natural Science Geography



2. Theoretical Basis: A model on what doing next in life

The life courses can be perceived as a process of *individual welfare production and maintaining* homeostasis in a changing environment *(allostasis).*

Our task: Explaining individual behaviour or actions over time time which are supposed to fulfil this requirement

- e.g. in the life domains of education, work career, family



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More generally one could assume:

Individual behaviour is determined by a (still not very well understood) algorithm A (in the brain) with a biological- und cultural-evolutionary moulded functional structure.

Its differently stable parameters are determined by

- the biological/genetic and cultural inheritance of human evolution, e.g. ingroup/outgroup moral
- *the individuals' socialisation and life experiences*, e.g. personally acquired attitudes and convictions
- *situation related circumstances*, e.g. time pressure to act



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What to do next?

What to do next (V(t)) for an individual — so a possible approach — is determined due to the principle of an according to A "optimal" balance between investment and outcome in order to maintain individual welfare W

$$\mathsf{E}_{\mathsf{A}}(\mathsf{W}_{\mathsf{t}+>\mathsf{t}}(\mathsf{V}(\mathsf{t})) \stackrel{!}{=} \max$$

This "rule" applies to conscious action or unconscious behaviour.

Missing the optimum from an "objective" perspective is possible because of the subjective biases in A (due to "Maladaptation").



Life course research: Theory

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Do we as social scientists need such a detailed model with three process levels?

Think of your own project or beyond



3. Bringing things together: The Life Course Cube

A simple, coherent model of the life course as a conceptual basis

The life course is a multidimensional behavioural process (of welfare production and maintenance) performed and experienced by individual actors in their natural and social environment.

It is shaped by interdependencies

- across time t = x + c (age x, date of birth c)
- in different life domains or fields of behaviour d
- influenced by and influencing processes on different levels I of aggregation.



It can then be modelled as a multidimensional stochastic process

BS(x) = $(Z_k(I,d;x): I=1,...,L; d=1,...D; k=1,..., K_{I,d}, x > 0)$

The *biographical status* at age x, BS (x), is a multidimensional vector of attributes $Z_k(I,d; x)$ on levels I, in life domains d, and at age x or at t=x+c.

The $Z_k(I,d;x)$ span a multidimensional state space (Σ) of BS(x) at age x – which changes over time due to *life events*.







→ Three kinds of "First Order Interdependencies"







Concepts:

Path dependence, anticipation; turning points





Group work: Please think of examples regarding Time related interdependence

(path dependence, anticipation, turning points)

(Think of your projects)







Concepts:

In regard to *resources*: competition, supportivity, compatibility; "coupled production" In regard to *outcomes*: compensation, substitution, spill-over, complementarity



Group work: Please think of examples regarding

Domain-related interdependence

(*Resource* competition, supportivity, or compatibility) (*Outcome* compensation, substitution, or spill-over/complementarity)







Concepts:

Socio-cultural environment \rightarrow inner-individual states/processes; overt/inner behaviour Neuro-psycho-physical resources/dispositions/functionings \rightarrow overt/inner behaviour Overt individual behaviour \rightarrow inner-individual states/processes; societal change



Group work: Please think of examples regarding

Multilevel-interdependence

(Supra-individual process level → inner-individual and individual process level) (Inner-individual process level → individual process level) (Individual process level → inner- and supra-individual process level)





Second Order Interdependencies

- The connection between the multi-level structure and multiple life domains (L*D)
- The connection between time-related interdependence and the multi-level structure (L*T)
- The connection between time-related interdependence and multiple life domains (T*D)



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→ different organizational principles guiding life domain-related regulations and activities at different levels and the question of how they fit



Question to the plenum

What might be differences in dealing with health problems at the inner-individual, the behavioral, and the societal level (healthcare system) – and how do they fit



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Inner-individual levels: developmental programmes, effects of socialisation; *Individual level:* the realized life course and experiences *Supra-individual levels:* context and social change, life course "shaping" institutions



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"Multiple clocks" driving the life course in different life domains

→ different timing of life events, changing relevance and variation in the relative contributions of life domains; changing impact of life domains on each other

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Interplay of all three dimensions usually has to be considered

→ e.g. (anticipated) impact of work and family life on each other <-> timing of work and family specific events <-> institutional support to reconciliate work and family.

Canalisation (Heckhausen and Buchmann 2018)

Developmental (Inner-I)

- accumulated perceived control,
- specialization,
- selective goal commitment,
- social network selection,
- entrapment

Societal (Supra-I)

- expected constraints,
- cumulative disadvantages,
- intergenerational status maintenance,
- compensatory advantage

Interplay of canalisation types in and between life domains

- compensatory agency overcoming social constraints
- echo-chambers of social segregation
- playing safe versus, risk taking



Finally...

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Group work: Please think of examples

(Again: think also of your projects)



Special Issues of "Advances In Life Course Research"

Fertility Over The Life Course Edited by Petra Buhr & Johannes Huinink

Theoretical And Methodological Frontiers In Life Course Research Edited by Laura Bernardi, Johannes Huinink, & Richard A. Settersten, Jr.



