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Undergraduate Interdisciplinary Research and the Context of Knowledge Production

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Objectives

To answer key question:

How can we make it possible for UG students and academic staff in the UK to achieve both integration and specialization in research?

 In answering key question, to draw on findings of a programme of research published as

Integrating Knowledge Through Interdisciplinary Research: Problems of Theory and Practice (Routledge, 2013)

Overview

- What is integrative interdisciplinary research?
- What justifies the production of integrative interdisciplinary research?
- Why are established researchers still finding it difficult to produce integrative interdisciplinary research, despite policy makers' efforts to help them overcome this difficulty?
- What are the policy implications for UG students and academic staff interested in engaging in integrative interdisciplinary research?
- Conclusion

What is integrative interdisciplinary research?

- Different conceptions of interdisciplinary research
 - reflect differences in underlying philosophical theory (e.g. positivism, postmodernism, critical realism)
- Focus on integrative interdisciplinary research
 - Dominant conception in academic literature
 - Synthesis of knowledge from different fields of inquiry

What justifies the production of integrative interdisciplinary research as well as specialized disciplinary research?

- Critical realist theory of integrative pluralism (see Bhaskar 1986, 1993, 2010)
 - Differentiation of reality justifies specialization in research
 - E.g. different types of social (and natural) structure
 - Interconnection of reality justifies integration in research
 - E.g. interaction/interdependence of different types of social (and natural) structure (as in a totality)

Why are established researchers still finding it difficult to produce integrative interdisciplinary research?

- Complexity of intellectual conditions i.e. contradictory philosophical forms of thought
- Complexity of social conditions e.g. relationships between employment, science, peer review, and education
- Interdependence of social and intellectual conditions generates dominant tendency towards specialization in research
- HE policy makers have overlooked significance of causal effect of underlying socio-intellectual conditions

What are the policy implications for UG students and academic staff interested in engaging in integrative interdisciplinary research?

- Intellectual aspect
 - UG students need to be aware of problem of philosophical contradiction education in philosophy of science
- Social aspect
 - UG students can help staff to transform social practices in HE e.g. assist with redesigning curriculum

Conclusion

- Problem of integrating knowledge through interdisciplinary research reflects existence of dialectical contradiction
- Resolve dialectical contradiction to facilitate both integration and specialization in research and teaching
- Transform socio-intellectual conditions of knowledge production – with input from UG students – to resolve dialectical contradiction

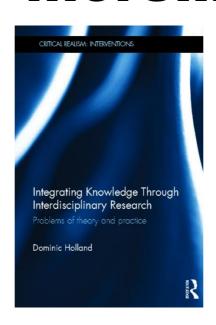
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Finally, if you want to learn more...

Read the book

Flyers available (20% discount)



 Read my forthcoming article in the Journal of Critical Realism:

'Complex realism, applied social science and post-disciplinarity: a critical assessment of the work of David Byrne'