

# Advice for Warwick Medical Students

---

james.bateman@warwick.ac.uk

| [go.warwick.ac.uk/msk](http://go.warwick.ac.uk/msk) |

@jamesbateman

## 1. Study Design and Grant Writing

Experimental study design and grant writing in eight steps and 28 questions.  
Full texts linked to here on Google...

<http://ome.med.ufl.edu/files/2009/05/bordage-dawson-med-ed-2003-experimental-design.pdf>

## 2. Letter Writing

Academic Medicine Handbook for Academic Writing Workshop: 120 pages

<http://journals.lww.com/academicmedicine/Documents/Handbook%20for%20Academic%20Medicine%20Writing%20Workshop.pdf>

Letter Writing: in a long article, but go to Page 90

[http://www.academia.edu/2893356/Identifying\\_the\\_most\\_important\\_research\\_is\\_there\\_more\\_to\\_life\\_than\\_Impact\\_Factors](http://www.academia.edu/2893356/Identifying_the_most_important_research_is_there_more_to_life_than_Impact_Factors)

## 3. Consort Statement Checklists

<http://www.consort-statement.org/consort-statement/>

## 4. Getting funding for things...

ASME <http://www.asme.org.uk/awards/>

AOME <http://www.medicaleducators.org/>

ARUK Education Research Fellowship

<http://www.arthritisresearchuk.org/health-professionals-and-students/educational-grants-fellowships-and-prizes/educational-research-fellowship.aspx>

ARUK Education Project Grants

<http://www.arthritisresearchuk.org/research/grants-you-can-apply-for/types-of-grant/educational-grants-fellowships-andprizes/education-project-grants.aspx>

## 5. Journals that Publish Medical Education Research

<http://www.med.uottawa.ca/aime/eng/journals.html>

## 6. Research Paradigms Poster: Academic Medicine single page summary

[http://journals.lww.com/academicmedicine/Fulltext/2012/03010/AM\\_Last\\_Page\\_\\_\\_Understanding\\_Qualitative\\_and.33.aspx](http://journals.lww.com/academicmedicine/Fulltext/2012/03010/AM_Last_Page___Understanding_Qualitative_and.33.aspx)

## 7. Consider the purchase of/ access to:

Survey software SurveyMonkey, Video Capture Tools, Snagit, Dropbox  
Endnote (desktop)

## 8. Misc: Question Writing resources

NBME US : Constructing Written Test Questions

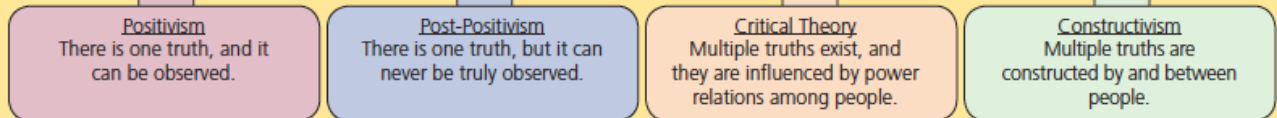
<http://www.nbme.org/publications/item-writing-manual.html>

# AM Last Page: A Guide to Research Paradigms Relevant to Medical Education

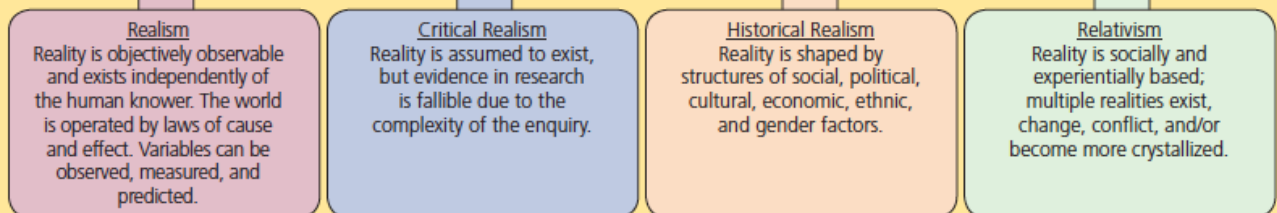
Esther Bergman, MSc, PhD student, Jeantine de Feijter, MD, PhD student, Janneke Frambach, MA, MSc, PhD student, Merijn Godefrooij, MD, PhD student, Irene Slootweg, PhD student, Renée Stalmeijer, PhD, assistant professor, Jonne van der Zwet, MD, PhD student, Maastricht University

In order to design or interpret qualitative and quantitative research, one should have some understanding of the assumptions that underpin them. Below, we provide an overview of some of the concepts underlying four philosophical paradigms in medical education research and illustrate the relationships between them.

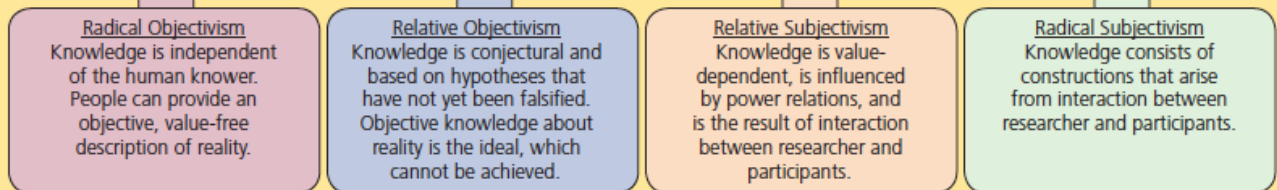
**Paradigm:** A philosophical framework that underlies and affects research activities. What are the assumptions underlying one's views on reality and knowledge? (Synonyms: theoretical or epistemological stance, world view)



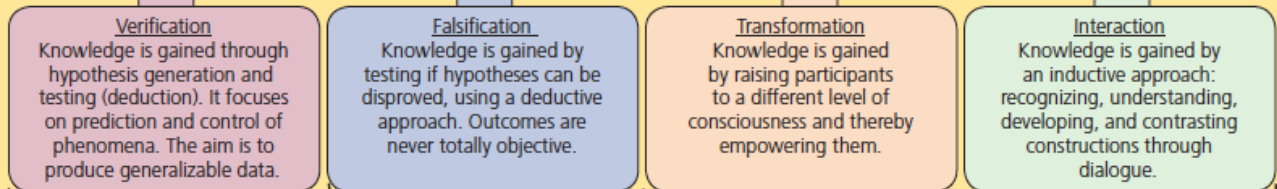
**Ontology:** Theory of the view on reality. What is the nature of physical and social reality?



**Epistemology:** Theory of knowledge. What are the origin, nature, and limits of knowledge about reality?



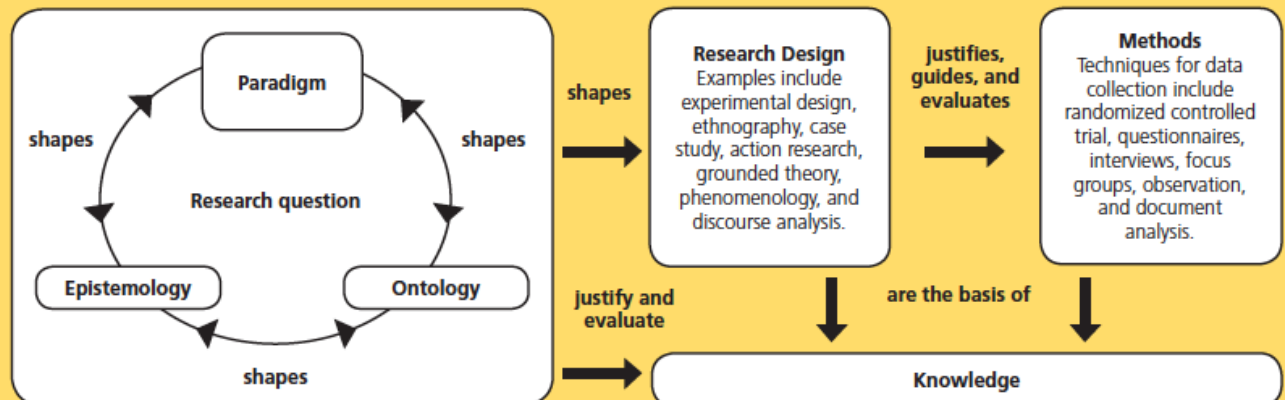
**Methodology:** Strategic approach to answer the research question and to gain knowledge. What is the research design?



Quantitative research

Qualitative research

As illustrated below, an understanding of research paradigms can guide researchers in designing and performing medical education research. Each step invites the researcher to consider underlying assumptions about knowledge and reality within the field of medical education and related disciplines.



**Suggestions for further reading:**

- Bunniss S, Kelly DR. Research paradigms in medical education research. *Med Educ.* 2010;44:358-366.
- Carter SM, Little M. Justifying knowledge, justifying method, taking action: Epistemologies, methodologies and methods in qualitative research. *Qual Health Res.* 2007;17:1316-1328.
- Illing J. *Thinking About Research: Frameworks, Ethics and Scholarship.* Edinburgh, UK: Association for the Study of Medical Education; 2007.