Philosophy of Time Travel  
(PHIL10125) Course Guide 2021/22

Course Organiser:  
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Timetable, Office hours, etc.: It’s November 19th 2021 as I write this and at present, the scheduled delivery-vehicle for this course is a single two-hour seminar per week, **Tuesdays, 16.10-18.00** (4.10-6 pm). I also aim to offer on-campus office hours at times tbc. Recently, I’ve found it useful to offer drop-in hours via Blackboard Collaborate so I will very probably do that again. So look out for further announcements but chats via (e.g.) Skype or Teams will be possible regardless. **Note that all lecture material has been pre-recorded and is already available via LEARN.**

Course Secretary:  
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School of Philosophy, Psychology and Language Sciences  
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Course Aims and Objectives

This course will offer detailed seminars on key philosophical issues in the philosophy of time travel, largely with an analytical slant. Students should end this course conversant with a range of significant metaphysical (and other) issues surrounding time travel. No detailed logical, scientific or metaphysical expertise will be assumed, and the course is intended to be accessible to students with a wide range of philosophical interests and aptitudes.

Intended Learning Outcomes

To develop further the philosophical skills, and to extend and deepen the philosophical knowledge, acquired in previous philosophy courses. Transferable skills that students will acquire or hone in taking this course should include the following:

- written skills (through summative essays)
- oral communication skills (through lecturer-led and/or student-led seminar discussions)
- presentation skills (through student discussion)
- analytical skills (through exploring a carefully-chosen series of philosophical texts)
- ability to recognise and critically assess an argument.

Lecture Times and Locations

Second semester
Day/Time: Tuesday, 16.10-18.00 (4.10 – 6 pm), venue tbc.

Again, this is all rather contingent on how re-opening proceeds. However please note that: i) all lecture content is already available in pre-recorded form on the LEARN page for this course, and ii) we have resources to allow this course to proceed fully online if required. Now I don’t foresee us having to all-online I stress but, just in case, please rest assured that the course can carry on as planned even if direct meetings prove impracticable. (I have delivered entire courses electronically before, I stress.)

Lecture Content and Readings

Asterisked items below are available from JSTOR. All other journal items should be available via the electronic journals access facilitated by the Library / MyEd. Any problems, do please let me know.
Main texts:

*** Please note: electronic alternatives to print resources can always be provided if (e.g.) the Main Library proves difficult of access. There is no irreplaceable reading that is only available in print. As always, please ask if I can help at all. ***

This is a research-led course, driven by my ongoing monograph and spin-off articles on sundry aspects of time travel.

Just recently (2018 and 2020 respectively), the Oxford University Press have published Ryan Wasserman’s *Paradoxes of Time Travel* and Nikk Effingham’s *Time Travel: Probability and Impossibility*, the first full-length books on the philosophy of time travel. Both books can be recommended in their entirety and should be available (again in their entirety) electronically via the Main Library. (My review of Wasserman appeared in *Analysis* in 2018. By the time the course is actually delivered, my review of Effingham should also be available, again from *Analysis*.)

This next is still probably the best available introduction to space and time in general:

  - Durham Acumen 2010, multiple copies should be available in the Library Hub Reserve (at shelf-mark BD632 Dai).

I spent academic years 2008-2009 and 2016-17 on research-leave, working on a raft of time-travel related articles plus a book. On request, I am happy to circulate draft papers and other works-in-progress of my own. (Just please don’t post my draft stuff anywhere – I’ll just end up looking silly / even sillier. Quite where my book is after Wasserman and Effingham is another story …)

Please note that the following lists of readings are prioritised, with the most important / useful readings at the top. So the recommended way to tackle the suggested readings is to start at the top of each list and work downwards. *If you read only one thing for each seminar, read the top one.*

**Week 1**

Introducing the Debate – What is Time Travel?
The Lewisian Analysis.

Recommended reading:


Useful background / of related interest:

- Paul Horwich, ‘On Some Alleged Paradoxes of Time Travel’, *The Journal of
Week 2
Developments of, and Objections to, the Lewisian Analysis.
Recommended reading:
Useful background / of related interest:

Week 3
A) Introducing Relativity.
- Craig Bourne, A Future for Presentism, Oxford, Oxford University Press, 2006, Ch. 5: 141–159. (Whole book available electronically via the Main Library.)
Further reading:

B) Gödel and the Unreality of Time
Recommended reading:
- Craig Bourne, A Future for Presentism, Oxford, Oxford University Press, 2006, Ch. 8: 204–224. (Whole book available electronically via the Main Library.)
Useful background / of related interest:

Week 4
The Cheshire Cat Problem and Other Spatial Perplexities.
Recommended reading:
- AR, 'Time Travel, Hyperspace and Cheshire Cats', *Synthese* 2017, online: [https://link.springer.com/article/10.1007%2Fs11229-017-1448-2](https://link.springer.com/article/10.1007%2Fs11229-017-1448-2)

Useful background / of related interest:

**Week 5**

Causal Loops Revisited (Part One): 'Jane', Jocasta, Dee and Dum.
Information Loops and Object Loops.
Recommended reading:

Useful background / of related interest:

**Week 6**

Recommended reading:

Useful background / of related interest:

B) Time Travel and Non-Turing Computation.
Recommended reading:
• AR, ‘The Big Pitowsky: Doing Infinitely Many Tasks in (Less Than) No Time At All’, MS still in progress.

Useful background / of related interest:

*Week 7*
Branching-Histories Time Travel.
The Autonomy Principle.
Recommended reading:
• John Abbruzzese, ‘On Using the Multiverse to Avoid the Paradoxes of Time Travel’, *Analysis*, 61, 2001: 36-38.

Useful background / of related interest:
• Timothy Chambers, ‘Time Travel: How Not to Defuse the Principal Paradox’, *Ratio*, 12, 1999, 296-301.

*Week 8*
The Nomological Contrivance Problem.
Bananas-Skins and Tomato-Rolling.
Recommended reading:

Useful background / of related interest:

*Week 9*
A) Travel in Multi-Dimensional Time.
Recommended reading:
• G. C. Goddu, ‘Time Travel and Changing the Past (or How to Kill Yourself and Live to Tell the Tale)’, *Ratio*, 16, 2003: 16-32.

Useful background / of related interest:

B) Testimony to Time-Travel.
Recommended reading:

Week 10
A) Free Will and Determinism
Recommended reading:

Useful background / of related interest:

B) Personal Identity
Recommended reading:

Useful background / of related interest:

Week 11
Recapitulation / Revision.
Assessment Information

Unless you’re taking the long essay for the coursework dissertation option, this course will be assessed by means of two essays per student.

1. A short (no more than 1,500 word) essay (40% overall mark):
   Due no later than 12 pm on Thursday 3rd March 2022

2. A final long (no more than 2,500 word) essay (60% overall mark):
   Due no later than 12 pm on Thursday 21st April 2022

Please note: there is no longer any separately-assessed Participation Component for this course. (There used to be but now there isn’t.) Assessment is purely by means of the two essays above.

OR:

Only for students doing a long essay for the coursework dissertation option:

A 5000 word essay (100% of the overall mark):
Due no later than 12 pm on Tuesday 19th April 2022.

Please notify the Teaching Office as to which course you will be completing the dissertation in no later than 12 pm Monday 28th February 2022.
Essay Questions

Below are some suggested questions intended to cover both the short mid-term (no more than 1,500 word) and final (no more than 2,500 word) essays. They could also serve if you like, as prompts for the long essay dissertation option.

Do please answer different questions for your mid-term and final essays.

Please note that for long essay purposes, students should be prepared to consider supplementing the suggested readings below, either though their own research and/or through consultation with course organiser. As always, additional / alternative readings can be provide on request – please just ask.

Also, please note that these essay prompts are exactly that, i.e. prompts. If you want an alternative question or you have any suggestions of your own, please let me know. I do however strongly recommended that you run any proposed alternative questions by me first, even if only in rough form.

1) Did David Lewis successfully establish the logical possibility of backward time travel?
   Reading as for week 1.

2) Discuss at least three objections to time-travel and explain which you find most convincing.
   Reading as for week 2.

3) Explain whether or not you think Gödel successfully argued that time is ideal.
   Reading as for week 3 B).

4) Are any of the following philosophically intolerable: a) information loops, b) object loops, c) both, d) neither?
   Reading as for week 5 and week 6 A).

5) Might time travel spacetimes afford feasible ways to achieve non-Turing computing outcomes?
   Reading as for week 6 B).

6) Would time travel oblige us to accept the existence of many histories?
   Reading as for week 7.

7) Must time travel worlds necessarily have peculiar physical laws?
   Reading as for week 8.

8) Might the possibility of multidimensional time allow time travellers to make genuine changes to the past?
   Reading as for week 9 A).

9) Could there ever be compelling testimony to the occurrence of time travel?
10) Could time travellers to the past retain any meaningful power of free action?  
Reading as for week 10 A).

11) What impact might time travel have on our conceptions of personal identity?  
Reading as for week 10 B).

*** Again, additional / alternative readings and/or questions can always be provided on request. The above are prompts merely. ***

Selected Additional References / Further Reading

- John W. Carroll, ‘Self Visitation, Traveler Time and Non-Contradiction’, MS available online at: [http://www4.ncsu.edu/~carroll/SVTTNC.pdf](http://www4.ncsu.edu/~carroll/SVTTNC.pdf)

- Kurt Gödel, 1946(a): ‘Some Remarks about the Relationship between Relativity Theory


- Robin Le Poidevin, Travels in Four Dimensions: The Enigmas of Space and Time,


Leo Sartori, Understanding Relativity: A Simplified Approach to Einstein’s Theories, California, University of California Press, 1996.


• Paul Thom, 'Time-Travel and Non-Fatal Suicide', *Philosophical Studies*, 27, 1975: 211-16.


• Peter B. Vranas, 'Do Cry Over Spilt Milk – Possibly You Can Change the Past', *The Monist*, 88, 2005


Christian Wüthrich, ‘Does Modern Physics Permit the Operation of Time Machines?’, MS available online at: [http://aardvark.ucsd.edu/grad_conference/wuthrich.pdf](http://aardvark.ucsd.edu/grad_conference/wuthrich.pdf)


**Selected on-line resources:**


**Some articles of mine:**

Over the last twenty years or so, I’ve published a few things on the philosophy of time travel, mainly academic articles but some popular too, as follows:


Some fictions and films:

A short word on historical precedence first: Unlike most metaphysical topics, time-travel has drawn forth rather a large fictional literature too. I used to think that H. G. Wells or Mark Twain had invented time travel fiction between them with *The Chronic Argonauts* (1888) and *A Connecticut Yankee in King Arthur's Court* (1889) respectively. Well, how wrong I was. A special mention goes to Edward Page Mitchell (1852-1927), who I reckon for the first writer (in English at any rate) to pen an unequivocal time travel story, complete with causal loop. The story in question was first published in 1881 and it's called ‘The Clock That Went Backward’, available online at: http://www.forgottenfutures.com/game/ff9/tachypmp.htm#clock

Another interesting Page Mitchell nugget is ‘An Uncommon Sort of Spectre’, from 1879 which features what I think is the first appearance in fiction of a ghost from the future and is available here: http://www.horrormasters.com/Text/a2228.pdf

Both the above Page Mitchell stories can be found in a fascinating anthology edited by Chad Arment, called *About Time: The Forerunners of Time Travel and Temporal Anomalies in Science Fiction and Fantasy* (Coachwhip Press, Landisville, Pennsylvania, 2009). This anthology also includes what may be (setting definitional subtleties to one side) an even earlier tale of backward time travel, ‘An Anachronism, or Missing One’s Coach’, published anonymously in the *Dublin University Magazine* for 1838.


Anyway, the following list cannot possibly claim to be exhaustive but here are a few stories I found interesting, (although I don’t necessarily claim literary merit in all cases):

- John Crowley, ‘Great Work of Time’, (1989), reprinted in Crowley’s collection *Novelty*. Pushes the notion of changing history about as far as it can possibly go...
... and a bit further.

- **Lester Del Rey**, ‘My Name is Legion’, (1942), reprinted in *The Best of Lester Del Rey*. Perhaps the pinnacle of multi-occupancy stories – also contains some intriguing advice on what to do with (the obviously then still-living) Adolf Hitler.


- **Kate Mascarenhas**, *The Psychology of Time Travel*, (2018), totally gripping and insightful murder mystery set in an alternative world in which time travel was discovered in the late 1960s. Also has an exceptionally witty and apt glossary, (yes really).

- **Michael Moorcock**, *Behold the Man*, (1969), original short story version appears in Moorcock’s *Book of Martyrs*. Centred on a remarkable feat of historical impersonation. (I say no more.)

- **Audrey Niffenegger**, *The Time Traveler’s Wife*, (2004). Very intriguing attempt at depicting (with complete consistency) a life whose personal time is very convoluted indeed. Lewis might well have applauded.


- **Christopher Priest**, ‘Palely Loitering’, (1979), reprinted in Priest’s collection *An Infinite Summer*. Poignant tale of revisited chances that also oddly anticipates real physical speculation about (e.g.) time-travel by Alcubierre warp-tube (of which more anon).


- **Mark Twain**, *A Connecticut Yankee at King Arthur’s Court*, (1889). Transmigration of epochs, no less – transplants a then-contemporary American to the British Dark Ages, and all quite independently of Wells’ efforts.


Likewise, a few time-travel films seemed interesting to me too:

- **La Jetée**, (1962), written and directed by Chris Marker. Beautiful, haunting short film told almost (but not quite) entirely in stills.
• 12 Monkeys, (1995), written by David Peoples and Janet Peoples, directed by Terry Gilliam, (inspired by Marker's *La Jetée*). Perhaps the best fictional exemplification of David Lewis’s classic analysis yet devised.

• Primer, (2004), written, directed and produced by Shane Carruth. Not at all Lewisian but thoroughly intriguing – watch it at least twice, ideally the second time with director’s commentary, some string and a notepad handy.

• Time Crimes (Los Cronocrimenes), (2007), written and directed by Nacho Vigalondo. Also thoroughly Lewisian, albeit to some very strange, *film noir*-ish, ends. Another “watch at least twice” job.

• Predestination (2016), written and directed by the Spierig brothers, based on Robert Heinlein’s short story ‘___ All You Zombies ____’. A remarkable (and basically Lewisian, I think) adaptation of a story that I had hitherto (wrongly) thought was basically unfilmable.

I am always in the market for more recommendations however.

**Feedback**

It’s very important that you should know what sort of standard of feedback you can expect on my courses and how quickly I aim to turn work around. I aim to make my feedback as useful as I can and to help you pinpoint not only those areas where improvement might be indicated but also those areas where you’ve done well. Please note that besides written feedback on summative work and draft work, you can also obtain feedback by making an appointment to see me, by sending me questions or concerns via e-mail.

For **short or long essays**, I aim to complete coversheets and return work electronically within **three working weeks** of initial submission.

If you’ve any questions relating to feedback or any other aspect of the course, please don’t hesitate to get in touch.

**Please Note**

This course is completely independent of my Honours core course ‘Metaphysics (Philosophy of Time)’. Some topics inevitably may reflect each other across the two courses but neither course is required for the other.