

## **jb manchak**

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logic and philosophy of science  
university of california, irvine

### **education**

ph.d. philosophy, university of california, irvine, 2009  
b.s. physics, brigham young university, 2004  
b.a. philosophy, brigham young university, 2004

### **appointments**

professor of logic and philosophy of science, university  
of california, irvine, 2017-  
affiliate professor of religious studies, university of  
california, irvine, 2019-

### **previous appointments**

associate professor of logic and philosophy of science,  
university of california, irvine, 2015-2017  
associate professor of philosophy, university of washington,  
2013-2014  
assistant professor of philosophy, university of washington,  
2009-2013

### **areas of interest**

space and time, philosophy of science, buddhism

### **works in progress**

time and again: on the logical, metaphysical, and physical  
possibility of time travel (with c. smeenk, and c. wüthrich),  
oxford university press.  
global spacetime structure, cambridge elements in philosophy  
of physics (j. weatherall, ed.), cambridge university  
press.

### **publications (\*=peer reviewed)**

30. "general relativity as a collection of collections  
of models" forthcoming in *hajnal andréka and istván németi  
on unity of science* edited by j. madarász and g. székely,  
springer.\*
29. "on feyerabend, general relativity, and 'unreasonable'  
universes." forthcoming in *interpreting feyerabend: critical  
essays* edited by k. bschir and j. shaw, cambridge university  
press.\*
28. "malament-hogarth machines" forthcoming in *the british  
journal for the philosophy of science*.\*

27. "a remark on 'time machines' in honor of howard stein." *studies in history and philosophy of modern physics*. 67 (2019): 111-116.\*
26. "why be regular?" (with b. feintzeig, s. rosenstock, j. weatherall). *studies in history and philosophy of modern physics*. 65 (2019): 122-132.\*
25. "some 'no-hole' spacetime properties are unstable." *foundations of physics*, 48 (2018): 1539-1545.\*
24. "space and time." *introduction to formal philosophy* edited by s. hansson and v. hendricks (2018). cham: springer nature, 487-496.\*
23. "would two dimensions be world enough for spacetime?" (with s. fletcher, m. schneider, j. weatherall). *studies in history and philosophy of modern physics*. 63 (2018): 100-113.\*
22. "(information) paradox regained? a brief comment on maudlin on black hole information loss" (with j. weatherall). *foundations of physics*. 48 (2018): 611-627.\*
21. "on the inextendibility of spacetime." *philosophy of science*. 84 (2017): 1215-1225.\*
20. "on gödel and the ideality of time." *philosophy of science*. 83 (2016): 1050-1058.\*
19. "is the universe as large as it can be?" *erkenntnis*. 81 (2016): 1341-1344.\*
18. "supertasks" (with b. roberts). *stanford encyclopedia of philosophy* edited by e. zalta (2016).\*
17. "time machines" (with j. earman, c. wüthrich). *stanford encyclopedia of philosophy* edited by e. zalta (2016).\*
16. "epistemic 'holes' in spacetime." *philosophy of science*. 83 (2016): 256-276.\*
15. "time (hole?) machines." *studies in history and philosophy of modern physics*. 48 (2014): 124-127.\*
14. "on spacetime singularities, holes, and extensions." *philosophy of science*. 81 (2014): 1066-1076.\*
13. "the geometry of conventionality" (with j. weatherall). *philosophy of science*. 81 (2014): 233-247.\*
12. "global spacetime structure." *the oxford handbook of philosophy of physics* edited by r. batterman (2013). oxford: oxford university press, 587-606.\*
11. essay review of david malament, *topics in the foundations of general relativity and newtonian gravitation theory*. *philosophy of science*. 79 (2012): 575-583.\*
10. "time travel: why it may not pay to work out all the kinks." *philosophy of science*. 78 (2011): 1037-1045.\*

9. "what is a physically reasonable spacetime?" *philosophy of science*. 78 (2011): 410-420.\*
8. "no no-go: a remark on time machines." *studies in history and philosophy of modern physics*. 42 (2011): 74-76.\*
7. "on efficient 'time travel' in gödel spacetime." *general relativity and gravitation*. 43 (2011): 51-60.\*
6. "on the possibility of supertasks in general relativity." *foundations of physics*. 40 (2010): 276-288.\*
5. "on the existence of 'time machines' in general relativity." *philosophy of science*. 76 (2009): 1020-1026.\*
4. "on force in cartesian physics." *philosophy of science*. 76 (2009): 295-306.\*
3. "is spacetime hole-free?" *general relativity and gravitation*. 41 (2009): 1639-1643.\*
2. "can we know the global structure of spacetime?" *studies in history and philosophy of modern physics*. 40 (2009): 53-56.\*
1. "is prediction possible in general relativity?" *foundations of physics*. 38 (2008): 317-321.\*

**presentations (\*=invited)**

49. "is the universe as large as it can be?" black hole initiative colloquium, harvard university. october 2019.\*
48. "spacetime holes and anti-holes," black hole initiative seminar, harvard university. september 2019.\*
47. "so you want to be a zen master?" uc irvine, philosophy club. january 2019.\*
46. "some 'no-hole' spacetime properties are unstable," meeting of the philosophy of science association. seattle, november 2018.
45. "some 'no-hole' spacetime properties are unstable," uk and european meeting on the foundations of physics, utrecht. july 2018.
44. "is the universe as large as it can be?" international colloquium on group theoretical methods in physics, prague. july 2018.
43. "time (hole?) machines." philosophy of science seminar. princeton university. may 2018.\*
42. "(information) paradox regained" (presented by j. weatherall). metro-area philosophy of science group, new york university. september 2017.\*
41. "(information) paradox regained." black hole initiative reading group. munich center for mathematical philosophy, ludwig maximilian university. august 2017.\*

40. "some no-hole spacetime properties are unstable." logic, relativity, and beyond. hungarian academy of sciences, institute for mathematics, budapest. august 2017.\*
39. "time (hole?) machines." the philosophy of howard stein. university of chicago. june 2017.\*
38. "on the inextendibility of spacetime." meeting of the philosophy of science association. atlanta. november 2016.
37. "is the universe as large as it can be?" uk and european meeting on the foundations of physics, london. july 2016.
36. "is the universe as large as it can be?" international conference on the nature and ontology of spacetime. varna, bulgaria. june 2016.
35. "is the universe as large as it can be?" philosophy of science seminar. princeton university. march 2016.\*
34. "is the universe as large as it can be?" conference in mathematical general relativity. tsinghua university, china. january 2016.
33. "epistemic 'holes' in spacetime." southern california philosophy of physics group, irvine. november 2015.\*
32. "epistemic 'holes' in spacetime." logic, relativity, and beyond. hungarian academy of sciences, institute for mathematics, budapest. august 2015.
31. "on gödel and the ideality of time" (presented by t. barrett). meeting of the philosophy of science association. chicago. november 2014.
30. "time (hole?) machines." uc irvine, department of logic and philosophy of science. april 2014.\*
29. "the geometry of conventionality" (presented with j. weatherall). uk and european meeting on the foundations of physics. munich, july 2013.
28. "time machines: some recent work." university of pittsburgh, philosophy of physics workshop. april 2013.\*
27. "the geometry of conventionality" (presented by j. weatherall). university of pittsburgh, history and philosophy of science seminar. april 2013.\*
26. "on gödel and the ideality of time." meeting of the american philosophical association, pacific division. san francisco. march 2013.
25. "on spacetime singularities, holes, and extensions." meeting of the philosophy of science association. san diego, november 2012.
24. "the geometry of conventionality." hungarian academy of sciences, institute for philosophy. budapest. september 2012.\*

23. "on spacetime singularities, holes, and extensions." logic, relativity, and beyond. hungarian academy of sciences, institute for mathematics. budapest. september 2012.\*
22. "on spacetime singularities, holes, and extensions." university of western ontario, physics seminar. april 2012.\*
21. "time machines: some recent work." university of western ontario, philosophy department. april 2012.\*
20. "time travel for children" paws-on science: husky weekend, pacific science center. seattle. march 2012.
19. "time machines: some recent work." university of konstanz, germany, philosophy of science workshop. march 2012.\*
18. "on spacetime singularities, holes, and extensions." southern california philosophy of physics group, irvine. january 2012.\*
17. "time machines: some recent work." conference on physics and computation, university of turku, finland. june 2011.\*
16. "time travel: why it may not pay to work out all the kinks." meeting of the philosophy of science association. montreal. november 2010.
15. "what is a physically reasonable spacetime?" university of british columbia, philosophy of science workshop. april 2010.\*
14. "what is a physically reasonable spacetime?" university of oxford, philosophy seminar. february 2010.\*
13. "what is a physically reasonable spacetime?" larsim laboratory, paris, french atomic energy commission. february 2010.\*
12. "what is a physically reasonable spacetime?" university of pittsburgh, philosophy of science workshop. march 2009.\*
11. "can we know the structure of our universe?" university of pittsburgh, philosophy department. january 2009.\*
10. "can we know the structure of our universe?" carnegie mellon university, philosophy department. january 2009.\*
9. "can we know the structure of our universe?" st. olaf college, philosophy department. january 2009.\*
8. "can we know the structure of our universe?" university of washington, philosophy department. january 2009.\*
7. "can we know the structure of our universe?" uc irvine, department of logic and philosophy of science. december 2008.\*

6. "on the existence of time machines." meeting of the philosophy of science association. pittsburgh. november 2008.
5. "on the possibility of supertasks in general relativity." southern california philosophy of physics meeting, irvine. may 2008.\*
4. "can we know the structure of our universe?" florence-irvine logic and philosophy of science conference, irvine. march 2007.\*
3. "on efficient 'time travel' in gödel spacetime." southern california philosophy of physics group. irvine, december 2006.\*
2. "on force in cartesian physics." meeting of the philosophy of science association. vancouver. november 2006.
1. "observational indistinguishability and geodesic incompleteness." university of western ontario, lmp graduate conference. may 2006.

#### **grants, fellowships, and awards**

dean's award for outstanding undergraduate teaching (school-wide distinction), university of california, irvine, 2020

visiting fellow, munich center for mathematical philosophy, ludwig maximilian university, summer 2017.

grant for "laws, methods, and minds in cosmology" (\$206,352) with c. smeenk and j. weatherall, john templeton foundation, 2016.

distinguished teaching award (university-wide distinction), university of washington, 2013.

order of merit: outstanding scholarship award (school-wide distinction) university of california, irvine, 2009.

justine lambert prize (best graduate student paper in philosophy of science), university of california, irvine, 2009.

regents dissertation fellowship, university of california, irvine, 2008.

quantum foundations summer fellowship, perimeter institute, 2007.

robert clifton memorial prize (best graduate student paper in philosophy of physics), university of western ontario, 2006.

## **teaching experience**

university of california, irvine: introduction to logic (2008), global spacetime structure (2015), introduction to philosophy of science (2015, 2017, 2018, 2019, 2020), what is space? (2015, 2016, 2017, 2018, 2019), introduction to zen (2015, 2017), geometry and spacetime (2016, 2019), existentialism (2016, 2018), science and religion (2017, 2019), probability and determinism (2017), spacetime singularities (2018)

university of washington: probability and induction (2012, 2013, 2014), decision theory (2011, 2011), philosophy of science (2010, 2010, 2012, 2013, 2014), introduction to logic (2010, 2010, 2011, 2013, 2013), philosophy of space and time (2009, 2011, 2013), set theory (2012), puzzles and paradoxes (2013), introduction to zen (2014), existentialism (2014).

brigham young university: introduction to russian (2000, 2001, 2001, 2002)

## **professional service**

director of graduate studies, university of washington (2013-2014); director of admissions, university of california, irvine (2015-)

referee/reviewer: american mathematical society, *analytic philosophy*, *british journal for the philosophy of science*, *dialectica*, *erkenntnis*, *european journal for philosophy of science*, *foundations of science*, *general relativity and gravitation*, *gravitation and cosmology*, *international journal of theoretical physics*, *international studies in the philosophy of science*, *journal of optimization theory*, *journal of philosophical research*, national science foundation, oxford university press, *philosophia mathematica*, *philosophies*, *philosophy of science*, philosophy of science association, *review of symbolic logic*, *studies in history and philosophy of modern physics*, *symmetry*, *synthese*, *theoria*

program committee member: 23rd meeting of the philosophy of science association, san diego (2012), 17th uk and european meeting on the foundations of physics, munich (2013), 2nd meeting on logic, relativity, and beyond, budapest (2015), 18th uk and european meeting on the foundations of physics, london (2016), 3rd meeting on logic, relativity, and beyond, budapest (2017), 4th meeting on logic, relativity, and beyond, budapest (2020).

community service: paws-on-science participant, seattle science center (2012); science fair judge, irvine unified school district (2016); ask-a-scientist panel member, irvine unified school district (2017); faculty representative, uc irvine first generation welcome dinner (2018, 2019);

faculty panel member, uc irvine science fiction club (2018);  
guest lecturer, uc irvine philosophy club (2019); th!nk  
philosophy instructor, san joaquin elementary school (2019);  
faculty panel member, wonder philosophy workshop for first  
generation students, uc irvine (2019)