

## **CURRICULUM VITAE**

**PABLO ACUÑA**

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### **EDUCATION**

- 2012-2014     PhD, History and Philosophy of Science, Utrecht University. Thesis title: *Empirical Equivalence and Underdetermination of Theory Choice: a philosophical appraisal and two case-studies*. Supervisor: Dennis Dieks. Committee: Michel Janssen, Michael Esfeld, Jeroen van Dongen, Igor Douven, Hans Radder.
- 2010-2012     MSc, History and Philosophy of Science (*cum laude*), Utrecht University.
- 2008-2009     Master Program, Philosophy of Science, University of Santiago de Chile.
- 2001-2006     BSc, Philosophy, Catholic University of Chile.
- 1998-2004     BSc, Hispanic Literature and Linguistics, Catholic University of Chile.

### **PROFESSIONAL EXPERIENCE**

- 2019-             Assistant Professor, Philosophy Institute, Pontifical Catholic University of Chile.
- 2015-2019       Assistant Professor, Philosophy Institute, Catholic University of Valparaíso.
- 2014-2015       Lecturer, Catholic University of Chile / Andrés Bello National University.
- 2011/2013       Teaching Assistant, Utrecht University.
- 2007-2009       Lecturer, Catholic University of Chile / Andrés Bello National University
- 2003-2005       Teaching Assistant, Catholic University of Chile.
- 2003-2009       High School Teacher

## **ACADEMIC VISITS**

- 2017            Visiting Fellow, Center for Philosophy of Science, University of Pittsburgh.
- 2017            Invited Professor, Philosophy Department, University of Chile.

## **PUBLICATIONS**

- ‘Charting the Landscape of Interpretation, Theory Rivalry, and Underdetermination in Quantum Mechanics’ (2019), *Synthese*,  
<https://link.springer.com/article/10.1007/s11229-019-02159-z>.
- ‘Projective Geometry in Logical Space: rethinking Tractarian thoughts’ (2018), *International Journal of Philosophical Studies*, **26**: 1-23  
<http://www.tandfonline.com/doi/full/10.1080/09672559.2017.1404623>.
- ‘Inertial Trajectories in de Broglie-Bohm Quantum Theory: an unexpected problem’ (2017), *International Studies in the Philosophy of Science*, **30**: 201-230,  
<http://dx.doi.org/10.1080/02698595.2017.1316107>
- ‘Minkowski Spacetime and Lorentz Invariance: the cart and the horse or two sides of a single coin?’ (2016), *Studies in History and Philosophy of Modern Physics*, **55**: 1-12,  
<http://dx.doi.org/10.1016/j.shpsb.2016.04.002>
- ‘On the Empirical Equivalence between Special Relativity and Lorentz’s Ether Theory’ (2014), *Studies in History and Philosophy of Modern Physics*, **46**: 283-302,  
<http://dx.doi.org/10.1016/j.shpsb.2014.01.002>
- ‘Another Look at Empirical Equivalence and Underdetermination of Theory Choice’ (2014), (with Dennis Dieks), *European Journal for Philosophy of Science*, **4**: 153-180,  
<http://dx.doi.org/10.1007/s13194-013-0080-3>
- ‘Artificial Examples of Empirical Equivalence’ (2014), in M. C. Galavotti *et al.* (eds.) *New Directions in the Philosophy of Science*, 453-468, Springer. Preprint available at  
<http://philsci-archive.pitt.edu/9893/>

## **CONFERENCES AND TALKS**

- ‘Chronogeometric Structure and Dynamics in Spacetime Theories: a Helmholtzian lesson’. *16th International Congress on Logic, Methodology and Philosophy of Science and Technology*. Prague, august 5-10 (scheduled), <http://clmpst2019.flu.cas.cz/>.

- New Directions in the Foundations of Physics (invited discussant), Viterbo, may 24-26, 2019, <http://carnap.umd.edu/philphysics/conference.html>.
- ‘Chronogeometric Structure and Dynamics in Spacetime Theories’, *First Chilean Conference on the Philosophy of Physics*, Santiago de Chile, november 30 2018, <https://philphyschile.wixsite.com/2018/program>
- ‘Must Hidden Variables Theories be Contextual? Kochen & Specker Meet von Neumann’, *VIII Conference on Quantum Foundations*, Buenos Aires, november 21 2018, <https://sites.google.com/view/viiiqfc/home?authuser=0>
- ‘Chronogeometric Structure and Dynamics in Spacetime Theories: a Helmholtzian lesson’, *Workshop on Foundations of Science*, Buenos Aires, september 3 2018, <http://filoexactas.exactas.uba.ar/workshop2018/index.html>
- ‘Charting the Landscape of Interpretation, Theory-rivalry and Underdetermination in Quantum Mechanics’, *Workshop Current Debates in Philosophy of Science: Mathematics, Models and Laws*, University of Chile, august 28 2018, <http://www.uchile.cl/agenda/144640/workshop-icurrent-debates-in-philosophy-of-sciencei>
- ‘Must Hidden Variables Theories be Contextual? Kochen & Specker Meet von Neumann’, *The 19th UK and European Conference on Foundations of Physics*, Utrecht, Netherlands, july 12 2018, <https://foundations2018.sites.uu.nl/schedule/>
- ‘Measuring the Epistemology of Geometry’, *Measurement at the Crossroads: history, philosophy and sociology of measurement*, Paris VII Denis Diderot, Paris, june 27 2018, <https://measurement2018.sciencesconf.org/resource/page/id/5>
- ‘¿Deben ser Contextuales las Teorías de Variables Ocultas? El Teorema de Kochen-Specker a la luz del Teorema de von Neumann’, *XI Encuentro de la Asociación de Filosofía e Historia de la Ciencia del Cono Sur*, Universidad 3 de Febrero, Buenos Aires, june 15 2018, <http://www.afhic.com/es/encuentro/programa/>
- *New Directions in the Foundations of Physics* (invited discussant), Viterbo Italia, june 8-10 2018, <http://carnap.umd.edu/philphysics/conference.html>
- Dynamics and Chronogeometric Structure in Spacetime Theories, *Fifth International Conference on the Nature and Epistemology of Spacetime* (Minkowski Institute), Albena, Bulgaria, may 14 2018, <http://www.minkowskiinstitute.org/conferences/2018/cprogram.html>
- ‘The Einstein-Lorentz-Poincaré Connection: rethinking the epistemology and ontology of spacetime’ *Lunchtime Colloquim Series*, Center for Philosophy of Science. University of Pittsburgh, september 2017, [http://www.pitt.edu/~pittcntr/Events/All/Lunchtime\\_talks/lunchtime\\_2017-18/abstracts/sept\\_17\\_details.html](http://www.pitt.edu/~pittcntr/Events/All/Lunchtime_talks/lunchtime_2017-18/abstracts/sept_17_details.html)

- ‘Quantum Mechanics as a Framework Theory’. *Scientific Realism and the Quantum—Final Conference*, University of Leeds, UK, september 2017, <https://arts.leeds.ac.uk/raq/events/scientific-realism-and-the-quantum-final-conference/>.
- ‘Inertial Trajectories in de Broglie-Bohm Quantum Theory: an unexpected problem’. *European Philosophy of Science Association Conference*, University of Exeter, UK, september 2017, <http://philsci.eu/epsa17>
- ‘Inertial Trajectories in de Broglie-Bohm Quantum Theory: an unexpected problem’. *II Workshop en Ontología de la Física*, Catholic University of Argentina, Buenos Aires, june 2017, <http://www.uca.edu.ar/index.php/site/index/es/uca/facultad-de-filosofia-y-letras/extension/actividades-de-extension-2017/ii-workshop-ontologia-de-la-fisica/>.
- ‘La Convencionalidad de la (Crono)Geometría y la Relatividad Especial’, Seminario Permanente Filosofía y Ciencias, University of Chile, may 2017, <http://www.filosofia.uchile.cl/agenda/132695/primer-sesion-seminario-permanente-filosofia-y-ciencias>.
- ‘Trayectorias Inerciales en la Teoría de Broglie-Bohm’, in *X Encuentro de Historia y Filosofía de la Ciencia del Cono Sur*, Aguas de Lindoia, Brasil, september 2016, <http://www.afhic.com/es/bienvenidos/2da-circular-x-encuentro-afhic/>.
- ‘Minkowski Spacetime and Lorentz Invariance: the cart and the horse or two sides of a single coin?’, in *The 18th UK and European Conference on Foundation of Physics*. London School of Economics, july 2016, <http://www.lse.ac.uk/philosophy/blog/2015/10/01/foundations-2016/>.
- ‘Minkowski Spacetime and Lorentz Invariance: the cart and the horse or two sides of a single coin?’, in *IV International Conference on the Nature and Ontology of Spacetime*, Varna, Bulgaria, may-june 2016, <http://www.minkowskiinstitute.org/conferences/2016/cprogram.html>.
- ‘The Ontological Status of the Wavefunction in Bohm’s Theory’, in *V Jornadas de Fundamentos de Cuántica*, december 2015, Buenos Aires, Argentina, <https://sites.google.com/site/vjornadasfundamentoscuantica/>
- ‘The Direction of the Arrow of Explanation between Kinematics and Dynamics in Special Relativity: a critical appraisal of the Janssen-Brown debate’, in *History and Philosophy of Science Colloquium Series*, september 2015, Utrecht University, Netherlands.
- ‘The Direction of the Arrow of Explanation between Kinematics and Dynamics in Special Relativity: a critical appraisal of the Janssen-Brown debate’, in *XVIII Summer School in Philosophy of Physics: a celebration for 100 years of general theory of relativity*, september 2015, Cesena-Urbino, Italy, <https://sites.google.com/site/centroricerchecirfis/home/cfp-xviii-summer-school-einstein-philosopher-scientist>

- ‘On the Empirical Equivalence between Special Relativity and Lorentz’s Ether Theory’, *Workshop in Philosophy of Physics*, Department of Theoretical Philosophy, Rijksuniversiteit Groningen, Netherlands, January 2015, <http://www.rug.nl/filosofie/news/events/workshop-philosophy-of-physics?lang=en>
- ‘Equivalencia Empírica e Infradeterminación de la Selección de Teorías: ¿cuál es el verdadero problema?’, in *XV Jornadas Rolando Chuaqui Kettlun: filosofía y ciencias*, Santiago de Chile, October 2014, <http://www.jornadaschuaqui.mat.uc.cl/>
- ‘El Azar en el Mundo Físico: mecánica cuántica e indeterminismo’, in *Azar: el sacro desorden de nuestras vidas*, Andrés Bello National University, Santiago de Chile, July 2014
- ‘Relatividad Especial y Mecánica Cuántica: ¿coexistencia pacífica o tregua armada?’ in *Seminario de Filosofía, Física y Astrofísica*, Catholic University of Chile, Santiago de Chile, May 2014, <http://filosofia.uc.cl/Noticias/seminario-de-filosofia-fisica-y-astrofisica.html>
- ‘Empirical Equivalence and Underdetermination of Theory Choice: a philosophical appraisal and a case-study’, in *New Directions in the Philosophy of Science*, Bertinoro, Italy, October 2012, <http://www.pse-esf.org/Bertinoro-ScientificReport.pdf>
- ‘Incommensurability and the Rationality of Science’, in *Third Young Researchers Days in Logic, History and Philosophy of Science*, Brussels, September 2012, [http://www.bslps.be/yrd3\\_schedule.pdf](http://www.bslps.be/yrd3_schedule.pdf)

## **AWARDS AND STUDY GRANTS**

- Utrecht University-wide *Best Graduate Thesis Prize* (2012-2013), <http://www.uu.nl/university/education/en/topteachersandtopstudents/studentawards/best-graduatethesis/Pages/default.aspx>
- Runner-up, *Hanneke Janssen Memorial Prize 2012* for master theses in philosophy of physics, Radboud University, [http://www.ru.nl/publish/pages/669795/jury\\_report\\_for\\_the\\_hanneke\\_janssen\\_memorial\\_prize\\_2012.pdf](http://www.ru.nl/publish/pages/669795/jury_report_for_the_hanneke_janssen_memorial_prize_2012.pdf)
- Becas-Chile Doctorate grant (2010-2014). Four-year grant that fully covers tuition fees and living expenses for outstanding Chilean students to pursue doctoral studies in top-ranked universities. Funded by CONICYT-Chile.
- Padre Hurtado Prize (1998-2004). Full undergraduate tuition grant for outstanding students with economical limitations. Funded by Catholic University of Chile.

## **FUNDED RESEARCH PROJECTS**

- FONDECYT Iniciación n° 11170608 (2017-2020), “Scientific Explanation and Scientific Understanding: a plea for a pluralist view”, funded by CONICYT, ca. € 70.000.
- DI Iniciación VREIA-PUCV 039.442 (2017), “Explanation and Understanding in Physics”, funded by Catholic University of Valparaíso, ca. € 2.500.
- DI Iniciación VREIA-PUCV 039.369 (2016), “Explanation and Understanding in Physics”, funded by Catholic University of Valparaíso, ca. € 2.500.
- Co-researcher in *Mass, Emergence and Structural Realism* (2015-2019) Research Project FONDECYT N° 1150661, funded by CONICYT Chile. Chief researcher: Dr. Diego Romero Maltrana.

## **REVIEWER ACTIVITY**

- External evaluator for Jac Van Egmond’s master thesis in philosophy of physics, Rijksuniversiteit Groningen, Netherlands.
- Anonymous referee for
  - o *European Journal for Philosophy of Science*
  - o *Foundations of Physics*
  - o *Philosophy of Science*
  - o *Studies in History and Philosophy of Modern Physics*
  - o *Synthese*
  - o *International Studies in the Philosophy of Science*

## **TEACHING**

- Philosophy of Physics: space & time (graduate)
- History and Philosophy of Science (graduate)
- Logical Positivism (graduate)
- Wittgenstein (graduate)
- Philosophy of Science (undergraduate)
- Epistemology (undergraduate)
- Philosophy of Language (undergraduate)
- Logic I (undergraduate)
- Logic II (undergraduate)
- Introduction to Philosophy (undergraduate)
- Ethics (undergraduate)

## **MEDIA APPERANCES**

- *De Volkskrant* (top newspaper in the Netherlands), interview about my doctoral thesis in the science section, August 27, 2014, <http://www.volkskrant.nl/wetenschap/einstein-had-frissere-blik-dan-lorentz~a3726650/>