

JUAN M. DURÁN

PERSONAL INFORMATION

<i>e-Mail</i>	j.m.duran@tudelft.nl
<i>Website</i>	juanmduran.net
<i>ORCID</i>	0000-0001-6482-0399
<i>Affiliation</i>	Faculty of Technology, Policy and Management - Delft University of Technology
<i>AOS:</i>	Philosophy of Computer Science - Philosophy of Science - Data Science - Epistemology - Ethics of Technology - Computer Ethics
<i>AOC:</i>	History of Science and Technology - History and Philosophy of Technology - Philosophy of Medicine - Logic and Critical Thinking

EMPLOYMENT

<i>Sept. 2019 –</i>	<i>Assistant Professor - Tenured - AP-1.</i> Faculty of Technology, Policy and Management. Delft University of Technology (TU Delft).
<i>Sept. 2019</i>	<i>Junior-Professor - Tenure Track</i> Ruhr-Universität Bochum. Position declined to take up Assistant Professorship at TU Delft.
<i>Sep. 2018 –</i> <i>Aug. 2019</i>	<i>Lecturer - Full time - Temporary</i> Faculty of Technology, Policy and Management. TUDelft.
<i>Feb. 2016 –</i> <i>Aug. 2018</i>	<i>Research associate. Temporary</i> Department of Philosophy of Science & Technology of Computer Simulation. High-Performance Computing Centre Stuttgart (HLRS). University of Stuttgart.
<i>2008 – 2009</i>	<i>Assistant Professor - Tenured.</i> College “Simón Bolívar”. Argentina
<i>2008 – 2009</i>	<i>Adjunct Professor</i> Faculty of Psychology. Universidad Nacional de Córdoba (UNC - Argentina)

EDUCATION

<i>2021</i>	<i>University Teaching Qualification - TU Delft</i>
<i>2014 – 2016</i>	<i>Post-doc - UNC - National Scientific and Technical Research Council (CONICET) - Argentina</i> Project: <i>A philosophical study on the explanatory power of computer simulations</i>
<i>2009 – 2013</i>	<i>PhD. Philosophy - Excellence Initiative - SRC-SimTech - University of Stuttgart - Germany</i> Thesis: <i>Explaining simulated phenomena. A defense of the epistemic power of computer simulations.</i>
<i>2008</i>	<i>PhD. candidate Philosophy - UNC - Argentina.</i> Position declined to take up Ph.D. position at SRC-SimTech.

- 2003 – 2007 *Licenciado philosophy* - Facultad de Filosofía y Humanidades (FFyH) - UNC¹
Thesis: *Modelos científicos y simulaciones computacionales*
- 2002 – 2003 *Research student*. National Space Activities Commission (CONAE). Gulich Institute, Argentina
- 1998 – 2002 *B.Sc. Computer science* - UNC - Argentina

AWARDS

- 2019 *Herbert A. Simon Award* for outstanding research in Computing and Philosophy - International Association for Computing And Philosophy (IACAP). This award recognizes scholars at an early stage of their academic career who are likely to reshape debates at the nexus of Computing and Philosophy by their original research.
- 2007 *University Award 2007* - First Class Honors - School of Philosophy - UNC - Argentina - GPA: 9.28/10

FELLOWSHIPS

- Sep 2020 – Dec 2020 *Senior fellow - Themes Group - Nederlands Institute for Advanced Study in the Humanities and Social Sciences*. Project: *Accountability in medical autonomous expert systems: ethical and epistemological challenges for explainable AI*. JMD as P.I. Collaborators: Giuseppe Primiero (University of Milan), Martin Sand (TU Delft), Karin Jongmsma (University Medical Center Utrecht) and Sander Beckers (Munich Center for Mathematical Philosophy). With grant.
- May 2015 – Nov. 2015 *Senior fellow* - Institute for Philosophy - University of Duisburg-Essen - Dr. Raphael van Riel.
- Feb. 2012 – May 2012 *Junior fellow* - Tilburg Center for Logic and Philosophy of Science - Tilburg University - Prof. Dr. Stephan Hartmann, Prof. Dr. Jan Sprenger. International call for two Junior Fellowships over 50 applicants.
- Sep. 2010 – March 2011 *Visiting scholar* - Department of Philosophy - University of Virginia - Prof. Dr. Paul Humphreys
- Oct. 2001 – May 2002 *Visiting scholar* - Department of computer science - Asociación de Universidades “Grupo Montevideo” - Universidade Federal do Paraná - Brazil.

GRANTS

Research grants awarded

- 2022 – 2050 *Dutch Node - SoBigData-ESFRI RoadMap 2021*.
- 2020 *KNAW Wetenschapsfondsen Evert Willem Beth Foundation* for workshop “Issues in XAI §4: Between ethics and epistemology of XAI”.
- 2020 *Subsidio Milstein* - Ministerio de Ciencia, Tecnología e Innovación Productiva - RAICES - Argentina.
- 2020-2024 *H2020 - HumaneAI* - Participation: *Ethics in design: methods and tools for the responsible development of AI systems*. Consortium with 50+ members from Academia, NGOs, and Industry.

¹ The “Licenciatura” degree represents 5 years of study with dissertation. In Germany it is equivalent to both, a B.A. and an M.A. combined.

- 2020-2024 *H2020 - SoBigData++ Group Leader: WP2 - Critical data literacy, Ethics and Legal Framework for Machine Learning and Artificial Intelligence. Consortium with 15+ members from Academia, NGOs, and Industry.*
- 2020-2021 *H2020 - EOSCsecretariat - Making Dark Data FAIR JMD as P.I. The project will study the ethics, epistemology and policy making of data in HPC facilities. The consortium includes TU Delft (prof. Kees Vuurk), University of Exeter (prof. Sabina Leonelli), University of Stuttgart (prof Michael Resch), and University of Pisa-SoBigData++ (prof. Fosca Giannotti).*
- Sep 2020 – Dec 2020 *Accountability in medical autonomous expert systems: ethical and epistemological challenges for explainable AI - Nederlands Institute for Advanced Study in the Humanities and Social Sciences (NIAS) - See Fellowships.*
- 2015 – 2017 P.I. *Filosofía de la explicación científica. with Manuel Barrantes (University of Virginia, USA) - CIFFyH - UNC, Argentina.*
- May 2015 – Nov. 2015 *A theory of explanation for computer simulations Institute for Philosophy - University of Duisburg-Essen and National Scientific and Technical Research Council*
- Feb. 2012 – May 2012 *The use of computer simulations as evidence and explanation of phenomena Tilburg Center for Logic and Philosophy of Science - Tilburg University.*

Study grants awarded

- 2014 – 2016 *Postdoctoral research grant - CONICET - UNC*
- 2009 – 2014 *Doctoral research grant - CONICET - UNC. Declined to take up junior research associate position at SRC-SimTech.*
- 2008 – 2009 *Doctoral research grant - Secretaría de Ciencia y Tecnología (SECyT) - UNC*

Research grants in preparation

- In preparation AI for human empowerment EU Call: A human-centered and ethical development of digital and industrial technologies (2022) (HORIZON-CL4-2022-HUMAN-02). With Federica Russo as PI.*
- In preparation Themes group: Ethics-cum-Epistemology - NIAS - Members: Duran, JM, Ratti, E, and Russo, F (PI).*

ADMINISTRATION

-
- In preparation Medical Ethics 2.0 TUDelft/WHO Institute. WHO Collaborating Center on design for values in medical AI. JMD prospective Managing Director*
- In preparation Dutch Research Node - SoBigData++/ESFRI Research Infrastructure. JMD Managing Director*
- 2022 – *Delft Digital Ethics Centre. Theme coordinator “Epistemic values”*
- 2020 – *President Commission on the Philosophy of Technology and Engineering Sciences. Division of Logic, Methodology, and Philosophy of Science and Technology.*

Memberships and advisory boards

- 2019 – *Steering Committee for the workshop series Issues in XAI.*

- 2021 – Member of the Advisory Board “AI-based methods for countering disinformation”. Prof. Dr. Kalina Bontcheva - University of Sheffield.
- 2021 – Member. *Dutch Research School of Philosophy (OZSW)*.
- 2021 – Coordinador Científico - Ciencias Sociales y Humanidades.
Red de Científicos e Investigadores Argentinos en los Países Bajos.
- 2020 – Member of the Advisory Board of Operational Ethics and Legality - *SoBigData++*
<http://project.sobigdata.eu>.
- 2020 – Work Package Leader - Responsible Data Science- *SoBigData++* .
- 2019 – External advisor for the implementation of new policies and ethics in data management
Library TU Delft.
- 2018 – External advisor *ECienTec* - Educación en Ciencias y Tecnologías. Universidad Nacional del Centro de la Provincia de Buenos Aires - Argentina.

Departmental duties

- 2021 – 2023 *Board member Delft Young Academy*. TU Delft.
- 2020 – *Student Internship Coordinator*. Faculty of Technology, Policy and Management. TU Delft
- 2020 – *TU-Delft representative in the Dutch Research School of Philosophy chamber on theoretical philosophy*.
Nederlandse Onderzoeksschool Wijbegeerte (OZSW).
- 2020 – *Digital Philosophy Seminar*. Twice a month seminar with PhD students and Postdocs.
- 2015 – 2018 *Deputy*. Department of Philosophy and Technology of Computer Simulations. HLRS. University of Stuttgart.

PUBLICATIONS

Published articles (*not peer-reviewed)

- 2022 36. **Durán, JM**, Sand, M, and Jongmsa, K “The ethics and epistemology of explanatory AI in medicine and healthcare” *Ethics and Information Technology*. 24(4):42.
- Commissioned 35. **Durán, JM** “Artificial intelligence and explainability in medicine” in *Springer Handbook of the Philosophy of Medicine*. Schramme, T and Edwards, E (eds.).
- forthcoming 34. **Durán, JM** “Computer Simulations” in *The Routledge Handbook of Philosophy of Scientific Modeling*. Knuuttila, T, Carrillo, N, and Koskinen, R. (eds.).
- forthcoming* 33. Formanek, N & **Durán, JM** “Branches of ethics” in *Modeling and Simulation Body of Knowledge* The Society for Modeling & Simulation International. T. Ören (eds.).
- forthcoming* 32. Formanek, N & **Durán, JM** “Hypothesis/Proposing explanation – in simulation ” in *Modeling and Simulation Body of Knowledge* The Society for Modeling & Simulation International. T. Ören (eds.).
- forthcoming* 31. Formanek, N & **Durán, JM** “Testing explanation – in simulation ” in *Modeling and Simulation Body of Knowledge* The Society for Modeling & Simulation International. T. Ören (eds.).
- 2022 30. **Durán, JM** “Models, explanation, representation, and the philosophy of computer simulations” in

- Philosophy of Computing. Themes from IACAP 2019* Lundgren, B and Nuñez Hernández, NA (eds). Springer. Philosophical Studies Series. pp 221- 249.
- 2022* 29. Pozzi, G. **Durán, JM** "Ethics" in *Encyclopaedia of Law and Data Science*, Edward Elgar Publishing. Comandé, G. (eds.).
- 2021* 28. **Durán, JM** Intro to Special Issue "The societal and ethical dimensions of computer simulations" - Journal SIMULATION
- 2021 27. Sand, M **Durán, JM**, Jongsma, K "Responsibility beyond design: physicians' requirements for ethical medical AI" *Bioethics* 00: 1– 8. <https://doi.org/10.1111/bioe.12887>.
Listed as Top Cited Article in the Journal of Medical Ethics since its publication.
- 2021 26. **Durán, JM** "Dissecting scientific explanation in AI (sXAI): a case for medicine and healthcare" *Artificial Intelligence* 297. <https://doi.org/10.1016/j.artint.2021.103498>
- 2021 25. **Durán, JM** and Jongsma, K. "Who is afraid of black-box algorithms? On the epistemological and ethical basis of trust in medical AI" *Journal of Medical Ethics* . 47:329-335.
<https://doi.org/10.1136/medethics-2020-106820> - *Top cited articles ranking 2021 - 2022*
- 2021* 24. (In Spanish) **Durán, JM** "Simulación". In *Glosario de Filosofía de la Técnica*. Parente, D, Berti, A and Célis Bueno, C (eds.).
- 2020 23. **Durán, JM** and Pirtle, Z. "Epistemic standards for participatory technology assessment: suggestions based upon Well-Ordered Science" *Science and Engineering Ethics*. 26:1709-1741.
<https://doi.org/10.1007/s11948-020-00211-7>.
- 2020 22. **Durán, JM** "What is a simulation model?" *Minds and Machines*. 30(3):301-323.
<https://doi.org/10.1007/s11023-020-09520-z>
- 2020 21. Schembera, B and **Durán, JM** "Dark Data as the new challenge for Big Data science and the introduction of the Scientific Data Officer" *Philosophy & Technology*. 33:93-115.
<https://doi.org/10.1007/s13347-019-00346-x>
- 2019 20. **Durán, JM** "A formal framework for computer simulations: surveying the historical record and finding their philosophical roots." *Philosophy & Technology*. 34:105-127.
<https://doi.org/10.1007/s13347-019-00388-1>
- 2018 19. **Durán, JM** and Formanek, N "Grounds for trust: Essential Epistemic Opacity and Computational Reliabilism" *Minds and Machines*. 28(4): 645-666. DOI: 10.1007/s11023-018-9481-6.
- 2018 18. **Durán, JM** "Ciencia de la computación y filosofía: unidades de análisis del software" *Principia: An International Journal of Epistemology*, 22(2): 203-227. DOI: 10.5007/1808-1711.2018v22n2p203
- 2017 17. **Durán, JM** "Varying the explanatory span: scientific explanation in computer simulations" *International Studies in the Philosophy of Science*. 31(1):27-45. DOI: 10.1080/02698595.2017.1370929
- 2017 16. **Durán, JM** "Eric Winsberg y la epistemología de las simulaciones computacionales". *Argumentos de Razón Técnica*. 20:87-101.
- 2017 15. **Durán, JM** "Simulaciones computacionales: un análisis de dos concepciones antagónicas". *Principia: An International Journal of Epistemology*. 21(1):125-140. DOI: 10.5007/1808-1711.2017v21n1p125
- 2017* 14. **Durán, JM** "Varieties of simulations: from the analogue to the digital". In *The science and Art of Simulation I. Exploring - Understanding - Knowing*. Resch, M., Kaminski, A., and Gehring, P. (eds.). pp. 175-192. Springer. ISBN: 978-3-319-55761-8.
- 2017 13. **Durán, JM** "Computer simulations as a technological singularity in the empirical sciences". In *The*

- Technological Singularity'*, Callaghan, V., Miller, J., Yampolskiy, R., Armstrong, S. (eds.). pp. 167-179. Springer. ISBN: 978-3-662-54031-2.
- 2016 12. Barrantes, M and **Durán, JM** "Reid on causation and scientific explanation". *The Journal of Scottish Philosophy*. 14(1): 51-67. DOI: 10.3366/jsp.2016.0113
- 2016 11. **Durán, JM** "La especificidad de la creencia religiosa, algo distinto de la razón. Wittgenstein y los 'juegos de lenguaje'". *Revista de Filosofía Aurora.*, 28(43):279-294. DOI: 10.7213/aurora.28.043.AO01
- 2015 10. **Durán, JM** "Nociones de simulación computacional: simulaciones y modelos científicos". *Argumentos de Razón Técnica*. 18:87-110.
- 2015* 9. **Durán, JM** "Simulaciones computacionales en la literatura filosófica actual" in *Epistemología y Prácticas Científicas* Rodríguez, V, Velasco, M and García, P (eds.), Imprenta de la Facultad de Filosofía y Humanidades, Argentina. pp. 9-40.
- 2015* 8. **Durán, JM** "Simulaciones computacionales como singularidad en las ciencias empíricas" in *Filosofía e Historia de la Ciencia en el Cono Sur*. Ahumada, J, Venturelli, N, y Chibeni, S (eds.). AFIHC / CIFFyH, Argentina. pp. 223-232.
- 2013* 7. **Durán, JM** "The use of the 'materiality argument' in the literature on computer simulations" in *Computer Simulations and the Changing Face of Scientific Experimentation*, Durán J. M. and Arnold, E. (eds), Cambridge Scholars Publishing. UK. pp. 76-98.
- 2011 6. García, P, **Durán, JM**, Ahumada, J "Experimentación, materialidad y simulaciones computacionales", in *Representación en Ciencia y Arte*, Torrano, A and Passos Videira, A (eds), Editorial Brujas. Argentina. pp. 73-82.
- 2010 5. **Durán, JM** "Computer simulations and traditional experimentation: from a material point of view", in *Thinking Machines and the Philosophy of Computer Science: Concepts and Principles*. Vallverdú, J. (ed). Editorial IGI Global. USA. ISBN: 978-1616920142. pp. 294-311.
- 2010 4. **Durán, JM**, Lodeyro, P and Bozzoli, M "El diseño de simulaciones digitales: una perspectiva desde las prácticas científicas", in *Epistemología e Historia de la Ciencia: Selección de Trabajos de las XX Jornadas*, García, P; Massolo, A (eds), Imprenta de la Facultad de Filosofía y Humanidades. Argentina. pp. 204-210.
- 2009 3. **Durán, JM** "Grados de materialidad y simulaciones computacionales", in *Epistemología e Historia de la Ciencia: Selección de Trabajos de las XIX Jornadas. Vol 15*, Letzen, D and Lodeyro, P (eds), Imprenta de la Facultad de Filosofía y Humanidades. Argentina. pp 171-177.
- 2008 2. **Durán, JM** "Diagramas Hertzianos: lecturas de una interpretación", in *Representación en la Ciencia y en el Arte*, Minhot, L and Olivé, L (eds), Editorial Brujas. Argentina.
- 2007* 1. **Durán, JM** "Reinterpretando a Hertz. Algunas consideraciones en torno a una lectura de Hertz", *Lektón. Revista de Filosofía*. 1(1):61-73.

Articles under review

3. **Durán, JM** "What is justified machine learning?". *Synthese*
2. Pozzi, G and **Durán, JM** "Informativeness and epistemic injustice in explanatory medical AI". *AI & Society*
1. **Durán, JM** and Pozzi, G "What is trustworthy AI?" *ACM Computing Surveys - Special Issue on Trustworthy AI*

Authored books

- 2018 2. **Durán, JM** "Computer simulations in science and engineering. Concepts - Practices - Perspectives". Springer. ISBN: 978-3-319-90880-9.
- 2014 1. **Durán, JM** "Explaining simulated phenomena. A defense of the epistemic power of computer simulations." *Ph.D. dissertation Universität Stuttgart*. Germany.
URL: <http://elib.uni-stuttgart.de/opus/volltexte/2014/9265>

Commissioned book reviews

- 2020 3. **Durán, JM** "Calculating surprises: a review for the philosophy of computer simulations". *Metascience*. DOI: 10.1007/s11016-020-00527-x.
- 2016 2. **Durán, JM** "The practice turn and its effect on science studies". *Metascience*. 25(2):285–288. DOI: 10.1007/s11016-016-0085-6.
- 2016 1. **Durán, JM** "Observation and Objectivity: Two Conflicting Notions at the Basis of the Circularity Argument". *Constructivist Foundations*. 12(1):220–221.

EDITIONS

Journals

- forthcoming 2023 Buijsman, S, **Durán, JM**, Pozzi, G, and Maas, J (eds). Special Issue: "Issues in explainable AI #4: Between epistemology and ethics of XAI". *Ethics and Information Technology*.
- 2022 **Durán, JM**, Sand, M, and Jongasma, K (eds). Special Issue: "The ethics and epistemology of explanatory AI in medicine and healthcare". *Ethics and Information Technology*.
- 2021 **Durán, JM** and van den Hoven, J (eds). Special Issue: "The societal and ethical dimensions of computer simulations." *SIMULATION*.

Books

- Expected 2024 2. **Durán, JM**, Pozzi, G. (eds) "Philosophy of science meets Machine Learning - Core issues, new perspectives". *Synthese Library*. Under contract.
- 2013 1. **Durán, JM** and Arnold, E (eds) *Computer simulations and the changing face of scientific experimentation*, Cambridge Scholars Publishing. UK.

TALKS

Keynote speaker

- June 2022 6. *Building reliance in machine learning through Computational Reliabilism* - Italian Society for Logic and Philosophy of Science (SILFS). Università degli Studi di Milano-Bicocca. Italy.
- March 2020 - Postpone due to COVID-19 5. *The philosophy computer-based scientific research: simulations, AI, and Big-Data*. Universidad Autónoma de México. México.
- October 2019 4. *Dark Data y los nuevos desafíos para Open Data y Open Science*, Facultad de Ciencias Económicas. Universidad Nacional de Córdoba. Argentina

- June 2019 3. *Two viewpoints for philosophically analyzing computer simulations*. International Association for Computing and Philosophy – Annual Meeting. Mexico City, Mexico.
- July 2018 2. *The ethics of computer simulations: challenges and perspectives for the future of science and technology*. 8th International Conference on Simulation and Modeling. Methodologies, Technologies, and Applications. Porto, Portugal.
- Nov. 2017 1. *El giro computacional en la filosofía de la ciencia*. XIX Foro Interno de Filosofía and III Congreso de Filósofos del Caribe - Universidad del Atlántico. Colombia.

Invited talks

- September 2022 24. “Thinking outside of the (black) box: Computational Reliabilism and epistemic trust”. XAI §5 - Dortmund Universität.
- August 2022 23. “Reliabilismo Computacional en ML”. University of Córdoba.
- July 2022 22. “Explicación científica en IA”. University of Buenos Aires.
- June 2022 21. “What is reliable machine learning?”. Netherlands Forensic Institute.
- June 2021 20. “Confiar en el resultado de los algoritmos de caja negra: una revisión sobre el fiabilismo computacional”. Universidad Panamericana. México.
- June 2021 19. “Jutificación y creencia en Machine Learning”. Universidad Autónoma de México. México.
- May 2021 18. “But... is it credible? Computational reliabilism for ML”. *Issues in XAI §2: Understanding and Explaining in Healthcare*, Leverhulme Centre for the Future of Intelligence, University of Cambridge.
- December 2020 17. “Matching ethics and law in AI: policy and practical implications for ‘Trustworthy’ AI”, Re-Imagine Europe. European Parliament.
- December 2020 16. “Computational reliabilism”, University of Amsterdam.
- November 2020 15. “Algunas consideraciones filosóficas acerca de sXAI”, FAMAF. Universidad Nacional de Córdoba. Argentina
- May 2020 -
Postpone due to
COVID-19 14. “The ethics and epistemology of scientific explanation in medical AI”, Forschungszentrum Jülich, Universität Bonn.
- June 2019 13. “Ethical concerns in scientific and engineering research with computer simulations”, Master of Science Engineering and Policy Analysis. TU Delft - Campus The Hague.
- May 2019 12. “Dark Data in Big Data and the Scientific Data Officer”, Research Data Management - Data Champions. TU Delft.
- March 2019 11. “Responsible research and innovation - H2020 - MSCA ACHIEVE-ITN”, Instituto de Microelectrónica Sevilla (IMSE-cnm), Universidad de Sevilla, Spain.
- March 2018 10. “Una aproximación a la historia y filosofía de las simulaciones computacionales”, Escuela de Filosofía y Humanidades. UNC.
- April 2018 9. *Meet the author*. Round table to discuss my forthcoming book: *Computer simulations in science and engineering. Concepts - Practices - Perspectives*, Springer. Escuela de Filosofía y Humanidades. UNC.
- March 2018 8. “Understanding the role of computational methods in science”, Department of Mathematics. James Madison University. USA.

- March 2018 7. "Computer simulations: the history and philosophy of a concept", Department of Philosophy. University of Virginia. USA.
- Jan. 2017 6. "Making the difference more visible: on mathematical models and simulation models", Karlsruher Institut für Technologie. Germany.
- Nov. 2016 5. "The discreet charm of contemporary scientific practice: Big Data and the problem of causality". The scientific practice of Big Data. HLRS, University of Stuttgart.
- Oct. 2015 4. "Philosophy of computer simulations or philosophy of science (focused on computer simulations)?". HLRS, University of Stuttgart.
- May 2012 3. "Historical introduction and overview of multi-scale modeling". Graduate School SRC-SimTech, University of Stuttgart
- June 2011 2. "Why computer simulations are epistemic devices", Institut d'Histoire et des Philosophie des Sciences et des Techniques, University Panthéon-Sorbonne, France
- June 2011 1. "Epistemological status of simulations", HLRS. University of Stuttgart
- Accepted refereed presentations**
- July 2022 40. "Where is technology in the philosophy of science in practice?" Panelist: The philosophical novelty of technology. Society for Philosophy of Science in Practice - Ninth Biennial SPSP — Ghent 2022
- September 2021 39. *4th Conference on "Philosophy and Theory of Artificial Intelligence"*, University of Gothenburg.
- July 2021 38. *CEPE/IACAP Joint Conference 2021: The Philosophy and Ethics of Artificial Intelligence*, Universität Hamburg. With Giorgia Pozzi.
- Aug. 2019 37. *Computational reliabilism: building trust in medical simulations*. Division of Logic, Methodology and Philosophy of Science and Technology. Czech Technical University, Prague, Czechia. With N. Formanek.
- Nov. 2018 36. *Grounds for trust: Essential Epistemic Opacity and Computational Reliabilism*. Science and Art of Simulation '18. University of Stuttgart. Germany. With N. Formanek.
- May 2018
unable to attend 35. *On the explanatory force of computer simulations*. Canadian Society for the History and Philosophy of Science. University of Regina. Canada.
- March 2018 34. *The historical and philosophical roots of computer simulations*. Models and Simulations 8. University of South Carolina. USA.
- Oct. 2017 33. *Computer simulations: the history of a concept and its philosophical footprint*. 4th International Conference on the History and Philosophy of Computing. Masaryk University. Czech Republic.
- June 2017 32. *A survey on computer simulations and mathematical models*. SILFS 2017 – Triennial International Conference of the Italian Society for Logic and Philosophy of Science. University of Bologna. Italy.
- July 2017
unable to attend 31. *Un análisis de la arquitectura de modelos simulacionales*. IV Congreso Iberoamericano de Filosofía de la Ciencia y la Tecnología. Cultura Científica y Cultura Tecnológica. Universidad de Salamanca. Spain.
- May 2016 30. *Computer simulations and big-data science: reviewing similarities and differences*. The Forum on Philosophy, Engineering & Technology (fPET), Friedrich-Alexander University Erlangen-Nürnberg. Germany.
- June 2016 29. *Entrenching the epistemological side of computer simulations: explanation and unification*. III Congreso de

- Graduados de la Sociedad de Lógica, Metodología y Filosofía de la Ciencia en España. Universidad de Valencia. Spain.
- Sep. 2016 28. *Explaining simulated phenomena. A defense of the epistemic power of computer simulation.* On simulation in science. Media Culture of Computer Simulations (MECS). Leuphana University Lüneburg. Germany.
- July 2015 27. Summer School: *Scientific explanation and computer simulations*, USS-SWC 2015. University of Vienna. Austria.
- Aug. 2015 26. *Variedades de simulación(es)*, AFRA 2015. Universidad Nacional del Litoral. Argentina. With A. Ilcic.
- Sep. 2015 25. *Varying the explanatory span: scientific explanation in computer simulations*, German Society for Analytic Philosophy. Osnabrück University, Germany
- Aug. 2015
unable to attend 24. *Some philosophical considerations of the past, present, and future of computer simulations*, Conference on Experimenting with New Technologies in Society - TU Delft.
- Sep. 2014 23. *Simulaciones computacionales como singularidad en las ciencias empíricas*, IX Encuentro de Filosofía de la Ciencia del Cono Sur - XXV Jornadas de Epistemología e Historia de la Ciencia, Universidad Nacional de Córdoba. Argentina
- Sep. 2014 22. *Breve reseña sobre la reciente literatura filosófica en materia de simulaciones computacionales*, IX Encuentro de Filosofía de la Ciencia del Cono Sur - XXV Jornadas de Epistemología e Historia de la Ciencia, Universidad Nacional de Córdoba. Argentina.
- Oct. 2013 21. *Explicación de resultados de simulaciones computacionales: un análisis desde la perspectiva unificacionista*, Coloquio Internacional: Language, Conocimiento, y Acción. Universidad Nacional de Rosario. Argentina.
- Oct. 2013 20. *Las simulaciones computacionales como explicación científica*, XXIV Jornadas de Epistemología e Historia de la Ciencia. Universidad Nacional de Córdoba. Argentina.
- July 2012 19. *Explanation in computer simulation results: towards its conceptualization*, 5th Models and simulations conference, University of Helsinki. Finland.
- April 2012 18. *On the epistemic virtues of computer simulations in the form of explanation of results*, The Future of Philosophy of Science, Tilburg University. The Netherlands.
- July 2011 17. *Experiments in-silico?* Interdisciplinary Workshop with Javier Blanco: Ontological, Epistemological, and Methodological Aspects of Computer Science, University of Stuttgart. Germany.
- July 2011 16. *The limits of computer simulations as epistemic tools*, First International Conference of IACAP, Åarhus University. Denmark.
- Nov. 2010 15. *Content aggregation, visualization and emergent properties in computer simulations*, Crnkovic, G. , Durán, J. M., Slutej, D. SIGRAD 2010, Mälardalen University. Sweden.
- Oct. 2010 14. *A new approach towards the 'materiality problem' of computer simulations*, 26th Boulder Conference on the History and Philosophy of Science, University of Colorado at Boulder. USA.
- Oct. 2010 13. *The materiality problem in the dilemma of computer simulations*, Bochum-Lausanne-Tilburg Graduate School: Philosophy of Language, Mind and Science, Tilburg University. The Netherlands.
- July 2009 12. *Computer simulations and traditional experimentation: from a material point of view*, VII European Conference on Computing and Philosophy, University of Barcelona. Spain.
- July 2009 11. *Computer models: from a contemporary point of view*, I Latin American Symposium on Computer and

Philosophy, Universidad Nacional Autónoma de México. Mexico.

- Oct. 2009 10. *Computer models revisited*, Modeling Spaces – Modifying Societies, University of Darmstadt. Germany.
- 2009 9. *Visualización y materialidad en simulaciones*, In collaboration. IV Simposio Internacional Representación en la Ciencia y en el Arte, Universidad Nacional de Córdoba. Argentina.
- 2009 8. *El diseño de simulaciones digitales: una perspectiva desde las prácticas científicas*, In collaboration. XX Jornadas de Epistemología e Historia de la Ciencia, Universidad Nacional de Córdoba. Argentina. With P. Lodeyro and M. Bozzoli
- Oct. 2008 7. *Simulaciones vs simulaciones computacionales*, IX Coloquios Internacionales Bariloche. Universidad del Comahue. Argentina.
- Aug. 2008 6. *Aspectos ontológicos de las simulaciones computacionales: ¿Un problema al que debemos prestar atención?*, X Conference Rolando Chuaqui Kettlun, Pontificia Universidad Católica de Chile. Chile.
- Nov. 2008 5. *Grados de materialidad y simulaciones computacionales*, XIX Jornadas de Epistemología e Historia de la Ciencia. Universidad Nacional de Córdoba. Argentina.
- May. 2008 4. *Algunas consideraciones sobre el problema ontológico de las simulaciones computacionales*, V Jornadas de Filosofía Teórica. Universidad Nacional de Córdoba. Argentina.
- Sep. 2008 3. *Galileo y la herencia de modelos idealizados en ciencia*, XIV Congreso Nacional de Filosofía de la Asociación Filosófica de la República Argentina, Universidad Nacional de Tucumán. Argentina.
- 2007 2. *Diagramas Hertzianos: lecturas de una interpretación*, III Simposio Internacional Representación en la Ciencia y en el Arte, Universidad Nacional de Córdoba. Argentina.
- June 2006 1. *La especificidad de la creencia religiosa: algo distinto a la razón*, III Conferencia de filosofía teórica: Conocimiento, normatividad y acción, Universidad Nacional de Córdoba. Argentina.

Other conference contributions

- 2019 6. *ESME 2019. The Pro-Res SoBigData Workshop about Ethics, Privacy and Explainable AI*. Pisa, Italy.
- 2017 5. *Summer School: On Computer Simulation Methods*. High Performance Computing Center Stuttgart - University of Stuttgart.
- 2017 4. *Varieties of Modeling in Technoscience: The Case of Synthetic Biology*. Technische Universität Darmstadt.
- 2016 3. *On simulation in science*. Media Culture of Computer Simulations (MECS). Leuphana University Lüneburg.
- 2015 2. *The computational turn. Simulation in science*. USS-SWC 2015. University of Vienna, Austria
- 2013 1. *The philosophical history of modern space-time theory*, with Robert DiSalle. University of Tübingen, Germany

COLLABORATION IN RESEARCH NETWORKS

-
- 2022 – research associate 22. *DFG Network on the Philosophy of AI*. Florian Boge, Thomas Grote, Lena Kästner, Emily Sullivan, Tim Rätz, Charles Rathkopf

- 2020 – research associate 21. *TPM AI Lab*. Personal research: Scientific explanation and understanding in AI: epistemological and normative goods
- 2020 – 2021 research associate 20. *Making Dark Data Fair*. In consortium with TU Delft (Prof. Kees Vuik); Uni-Stuttgart (Prof. Michael Resch); Uni-Pisa (Prof. Fosca Giannotti); Uni-Exeter (Prof. Sabina Leonelli).
- 2019 – organizer 19. *Cambridge-Saarbrücken-Delft Workshop series “Issues in Explainable AI #4”* - Center for the Future of Intelligence (University of Cambridge), Universität Saarbrücken - TU Delft.
- 2019 – 2021 committee member 18. The Society for Modeling & Simulation International Committee for the development of the book *Modeling and Simulation Body of Knowledge for SCS*.
- 2018 – research associate 17. *SoBigData: Social Mining & Big Data Ecosystem. A research infrastructure. Funding: Horizon 2020 research and innovation programme. Grant No. 654024*.
- 2018 – research associate 16. *Delft Design for Values. Design for Values in Artificial Intelligence*. Personal research: The value of algorithmic transparency: explanation and understanding.
- 2018 – research associate 15. *Research Data Management - Data Champions. TU Delft*. Personal research: Dark Data in Big Data and the Scientific Data Officer.
- 2018 – research associate 14. *4TU.Center for Ethics and Technology*. Personal research: Explanation is not merely an epistemic endeavor: the values and ethics of explaining and understanding algorithms.
- 2018 – 2021 research associate 13. *Simulaciones computacionales y experimentación desde la perspectiva de las prácticas científicas: una aproximación epistemológica y metodológica PICT-2016-1524*. Dr. Pío García, CIFFyH, UNC, Argentina. AR\$: 504.000 .
- 2017 – present 12. *Ethics of Computer Simulations* with Prof. Dr. Tuncer Ören (University of Ottawa), Canada.
- 2016 – 2017 11. *Participatory Technology Assessment* with Zachary Pirtle - National Aeronautics and Space Administration (NASA), USA.
- 2015 – 2016 research associate 10. *Filosofía de las prácticas científicas: computación, simulación y experimentación*. Dr. Pío García, Centro de Estudios Avanzados (CEA), UNC, Argentina. US\$: 5,000
- 2012 – 2015 research associate 9. *Las prácticas científicas experimentales y observacionales: enfoque epistemológico desde las simulaciones computacionales y modelización matemática*. Prof. Víctor Rodríguez. Scientific and Technological Research Fund (FONCyT), UNC, Argentina. US\$: 60,000.
- 2012 – 2015 research associate 8. *Filosofía de las prácticas científicas: computación, simulación y experimentación* Dr. Pío García, Dr. Marisa Velasco, SECyT, UNC, Argentina. US\$: 10,000
- 2010 – 2012 research assistant 7. *Scientific network ‘atmosphere & algorithms’* Dr. Gabriele Gramelsberger. Deutsche Forschungsgemeinschaft (DFG), Universität Stuttgart, Germany.
- 2010 – 2012 research assistant 6. *Simulaciones computacionales e instrumentos científicos: materialidad, visualización y ampliación cognitiva* Dr. Pío García. SECyT, UNC, Argentina.
- 2010 – 2012 research assistant 5. *Filosofía de las practicas científicas: simulaciones computacionales*. Dr. Pío García. CEA, UNC, Argentina
- 2008 – 2011 research assistant 4. *Filosofía y ciencia computacional: epsitemología, ontología y metodología*. Dr. Javier Blanco, Dr. Pío García. Ministry of Science and Technology of Córdoba, UNC, Argentina. US\$: 10,000.
- 2008 – 2010 research assistant 3. *Filosofía de las prácticas científicas: heurísticas, simulación y experimentación*. Prof. Víctor Rodríguez, Dra. Marisa Velasco. CIFFyH, UNC, Argentina. US\$: 1,000

- 2007 – 2009
research student
2. *Simulaciones computacionales y representación en el contexto de las prácticas científicas*. Dr. José Ahumada, Dr. Pío García, CIFYH, SECyT, UNC, Argentina. US\$: 1,000
- 2006 – 2008
research student
1. *Simulaciones computacionales y representación en el contexto de las prácticas científicas: aspectos epistemológicos*. Dr. José Ahumada, Dr. Pío García. SECyT, UNC, Argentina. US\$: 5,000

STUDENT SUPERVISION

PostDoc supervision

- 2023-2025
Daily supervisor
- TBA - Dutch Research Node - SoBigData++/ESFRI Research Infrastructure
- 2020-2021
Daily supervisor
- Dr. Jack Casey - European Open Science Cloud - Project: *Making Dark Data FAIR*.

Ph.D. supervision

- 2020-2024
Daily supervisor
- Jonne Maas
HumaneAI - Project: *Ethics in design: methods and tools for the responsible development of AI systems*.
- 2020-2024
Daily supervisor
- Girogia Pozzi
SoBigData++ - Project: *The ethics and epistemology of explanatory AI*.

Master students supervision

- 2020
Second supervisor
- Amirali Khaleghi. MoT - TU Delft.
Thesis: *Towards achieving gender equality in automated loan approval processes*.
- 2020
Main supervisor
- Arnoud Nederpel. MoT - TU Delft.
Thesis: *Ethical behavior with artificial intelligence in the Dutch information technology industry*. Nominee to graduate with Honors.
- 2019
Advisor
- Juan Ruiz Reina. MoT. TU Delft.
Thesis: *Towards a Responsible Implementation of Artificial Intelligence in Health Care*.
- 2016–2018
Main supervisor
- Verónica Inés Pedersen. Facultad de Humanidades, Universidad Nacional del Nordeste, Argentina.
Thesis: *Las simulaciones computacionales como nuevo nicho de producción científica*.

Honors student

- 2020
Main supervisor
- Amaryllis Brosens Tentative title: "Data colonialism in medical AI: the use of drones in Rwanda".
TUDelft.

PhD Defence - Committee participation

- 2020
- The rise of the learning machines*. Ezequiel López Rubio - University of Malaga
Committee members: Gualtiero Piccinini, Jesús Zamora, and JMD.

TEACHING

English

- 2021 –
- Philosophy of Engineering Science and Design (WM0349WB)*. Course Manager. TU Delft. MA students.

- 2021 – *Ethics of AI* (former *Values in ICT (TPM014B - TPM015AB)*). Course Manager. TU Delft. MA students.
- 2019 – 2020 *IT and Values WM033IT*. Course Manager. TU Delft. Undergraduate students.
- 2018 – *Research Design. R1.A1*. Lecturer. TU Delft. Graduate School. Ph.D. students.
- 2018 – *Creative & Critical Thinking in Engineering. R2.D1*. Course Manager. TU Delft. Graduate School. Ph.D. students.
- 2019 *Philosophy of Science WM0349WB*. Tutor. TU Delft. Undergraduate students.
- 2019 *Ethics and Transportation WM1301TU*. Tutor. TU Delft. MA students.
- 2018 – 2019 *Ethics & Engineering. WM0320TU*. Tutor. TU Delft. MA students.
- 2018 – *Critical Reflections on Technology UD2010*. Tutor. TU Delft. Undergraduate students.
- SS 2018 *Ethics of Technology*. Lecturer. University of Stuttgart. Undergraduate course.
- WS 2017 *Philosophy of Computer Science*. Lecturer. University of Stuttgart. Undergraduate course.
- SS 2017 *Philosophy of Computer Science*. Lecturer. University of Stuttgart. Undergraduate course.
- WS 2016 *Philosophy of Scientific Explanation*. Lecturer. University of Stuttgart. Postgraduate course.
- WS 2009 *Philosophy of Computer Simulation*. Lecturer. Institute of Philosophy. University of Stuttgart. Undergraduate course.

MOOC courses

- In preparation* “Modelling, Uncertainty and Data for Engineers: FAIR Data” TUDelft. MA students.
- 2022 “Fundamentals of AI: Privacy” TUDelft. MA students.
- 2022 “Fundamentals of AI: Bias I” TUDelft. MA students.
- 2022 “Fundamentals of AI: Bias II” TUDelft. MA students.
- 2022 “Fundamentals of AI: Trustworthiness” TUDelft. MA students.
- 2022 “Fundamentals of AI: Transparency and Explainability” TUDelft. MA students.

Spanish

- SS 2015 *Filosofía de Informática*. Adjunct Professor. FFyH, UNC. Undergraduate and Graduate course.
- WS 2015 *Explicación Científica*. Adjunct Professor. FFyH, UNC. Graduate seminar.
- SS 2014 *Filosofía de las Simulaciones Computacionales*. Adjunct Professor. FFyH, UNC. Graduate course.
- WS 2014 *Filosofía de Informática*. Adjunct Professor. FFyH, UNC. Undergraduate and Graduate course.
- 2014 – 2016 *Filosofía de la Ciencia*. Adjunct Professor. FFyH, UNC. Undergraduate course.
- 2008 – 2010 *Lógica y Resolución de Problemas* (Logic and critical thinking). Assistant Professor (tenured). College “Simón Bolívar”, Argentina. Undergraduate course.

- 2008 – 2009 *Filosofía de la Ciencia*. Adjunct Professor. FFyH, UNC. Undergraduate course.
- 2008 – 2009 *Problemas Epistemológicos de la Psicología*. Adjunct Professor. Facultad de Psicología. UNC. Undergraduate course.
- 2007 – 2009 *Problemas Epistemológicos de la Psicología*. Online Instructor. Facultad de Psicología. UNC. Undergraduate course.
- 2005 – 2007 *Metafísica*. Teacher Assistant. FFyH, UNC. Undergraduate course.
- 2005 – 2007 *Problemas Epistemológicos de la Psicología*. Teacher Assistant. Facultad de Psicología. UNC. Undergraduate course.
- 2002 – 2003 *Algoritmos y Estructuras de Datos I*. Student Assistant. Facultad de Matemática, Astronomía, Física y Computación. UNC. Undergraduate course.
- 2001 – 2002 *Introducción a la Lógica y la Computación*. Student Assistant. Facultad de Matemática, Astronomía, Física y Computación. UNC. Undergraduate course.

PROFESSIONAL SERVICE

Reviewer for academic journals and books

20. International Studies in the Philosophy of Science; 19. The British Journal for the Philosophy of Science; 18. Synthese; 17. European Journal for Philosophy of Science; 16. Minds and Machines; 15. Philosophy & Technology; 14. Artificial Intelligence; 13. Philosophers' Imprint; 12. Foundations of Science; 11. Ethics and Information Technology; 10. Ethical Theory and Moral Practice; 9. Engineering Studies; 8. Science and Engineering Ethics; 7. Computer & Education; 6. NTM Journal of the History of Science, Technology and Medicine; 5. Crítica; 4. Scientific Journal Guillermo de Ockham; 3. Springer - International Library of Ethics, Law and Technology; 2. IACAP 2019 Proceedings; 1. Science and Art of Simulation 2015 - XXV Jornadas de epistemología e historia de la ciencia; IX Encuentro AFHIC.

External reviewer

5. Swiss National Science Foundation; 4. Estonian Research Council; 3. Wallenberg AI, Autonomous Systems and Software Program – Humanities and Society (Umeå University); 2. Fondo para la Investigación Científica y Tecnológica (Argentina); 1. Programa de Filosofía de la Ciencia. Universidad Nacional Autónoma de México.

External Expert Group review of “WHO draft guidance on ethics and governance of artificial intelligence for health”. *World Health Organization*

Participation in scientific committees

- 2022 IACAP 2022 Santa Clara, Santa Clara University, CA, USA.
- 2021 6th International Conference on the History and Philosophy of Computing (HaPoC-6) - ETH Turing Centre, Zurich, Switzerland.
- 2021 Issues in Explainable AI #3: Bias and Discrimination in Algorithmic - Decision-Making - Universität Hannover, Germany.
- 2021 Dutch Research School of Philosophy (OZSW) - Graduate Conference in Theoretical Philosophy 2021.

2021 Workshop on Ethics and Privacy of Big Data for Migration research.

Organization of academic events

- July 2022* The Dutch Research School of Philosophy (OZSW) “Philosophy in the Forest” - <https://www.ozsw.nl/activity/nvwf-conference-2022/>
- Nov 2022* TUDelft - WHO - SoBigData++ workshop: “Designing and operationalizing values in AI for medicine and healthcare.”
- May 2022* “Issues in XAI §4: Between epistemology and ethics of XAI”. TU Delft.
- Nov 2021* TUDelft - WHO workshop: “Ethics and Governance of Artificial Intelligence (AI) for Health: The Importance of Design for Values”. TUDelft.
- April 2021* “Workshop III: Data, Society, and Open Science - Challenges for data management and data-based research”. TU Delft.
- March 2021* “Workshop II: Data, Society, and Open Science - Roundtable on the FAIR principles and data-driven scientific practice.” TU Delft.
- November 2020* “Workshop I: Data, Society, and Open Science - Making Dark Data FAIR.” TU Delft.
- April 2021* One-week workshop - Lorentz Center - NIAS-KNAW - Lorentz Theme Group Fellowship. “Accountability in medical autonomous expert systems: ethical and epistemological challenges for explainable AI”. University of Leiden.
- 2018 – 2019* “DLMPST symposium: Academic Means-End Knowledge in Engineering, Medicine and other Practical Sciences”. 16th Congress of Logic, Methodology and Philosophy of Science and Technology (CLMPST 2019); Czech Technical University, Prague.
- 2015 – 2018* Yearly workshop: “The science and art of simulation (SAS)” HLRS, University of Stuttgart.
- Jun.16* “Tag der Wissenschaft” - HLRS, University of Stuttgart.
- 2015* Manuel Barrantes on “Explicación Contrafáctica en Ciencia y Matemáticas” Centro de Investigaciones de Filosofía y Humanidades, UNC.
- 2011* SimTech conference: “Computer simulations and the changing face of scientific experimentation”, SRC-SimTech, University of Stuttgart
- 2011* SimTech workshop: “Interdisciplinary workshop with Prof. Dr. Javier Blanco”. SRC-SimTech, University of Stuttgart
- 2009* “First Latinamerican Computer and Philosophy Symposium (LA-CAP)”. Universidad Nacional Autónoma de México, México. The LA-CAP started as the Latin-American branch of the IACAP the year before it become an unified international event.

OUTREACH

Interviews, podcasts, and philosophy communication

- TBA* Interview on “The Medical AI Podcast” <https://anchor.fm/medicaiapodcast>
- August 2022* “Epistemología y ética de aprendizaje de máquina”. University of Córdoba. Argentina

August 2022 "Confianza en ciencia hecha con (o mediante) sistemas computacionales" Instituto de Astronomía Teórica y Experimental. Argentina.
<https://www.youtube.com/watch?v=ogFwROkjTsM&feature=youtu.be>

2019 Interview on "AI & Data Privacy" for TU Delta.
<https://www.delta.tudelft.nl/article/what-artificial-intelligence-ai-means-your-privacy>

Proceedings, magazines, and newsletters

2021 11. (various authors) "Tech Philosophers Explain The Bigger Issues With Digital Platforms, And Some Ways Forward". <https://3quarksdaily.com/3quarksdaily/2021/02/tech-philosophers-explain-the-bigger-issues-with-digital-platforms-and-some-ways-forward.html#more-193133>

2021 10. Casey, J. and Durán, JM (2020) *Why the FAIR principles are not enough: lost data and a case for FAIR+* <https://zenodo.org/record/4647978#.YGNtd68zYuU>

2020 9. Casey, J. and Durán, JM (2020) *Making Dark Data FAIR* <http://www.sobigdata.eu/blog/making-dark-data-fair>

2019 8. Durán, JM "A glimpse into the intertwining of epistemic opacity and moral opacity in AI systems". In Fosca Giannotti, Beatrice Rapisarda, Roberto Trasarti, and Valerio Grossi (eds), *SoBigData Magazine*, pp. 24. <http://www.sobigdata.eu/newsletter>.

2016 7. Durán, JM "Entrenching the epistemological side of computer simulations: explanation and unification". In Perdomo, I., Blanco, A., and Martínez, C. (eds), *Boletín de la Sociedad de Lógica, Metodología y Filosofía de la Ciencia en España.*, pp. 25-27. ISSN: 1577-2292.

2016 6. Kaminski, A and Durán, JM "TranSim: bringing philosophy and computer simulations together". *InSiDE. Innovative Supercomputing in Deutschland.* 14(2):33-37.

2013 5. Durán, JM "A brief overview of the philosophical study of computer simulations". *American Philosophical Association Newsletter on Philosophy and Computers.* 13(1):38-46.

2013 4. Durán, JM and Arnold, E "Introduction". In Durán J. M. and Arnold, E. (eds), *Computer simulations and the changing face of scientific experimentation*, Cambridge Scholars Publishing. UK. pp. 1-8.

2011 3. Durán, JM "The limits of computer simulations as epistemic tools". In Ess, C.; Hagengruber, R. (eds), *IA-CAP 2011 - The computational turn: Past, presents, futures?*, Mv-Wissenschaft, Münster, Århus University. Denmark., pp. 40-42.

2010 2. Dodig-Crnkovic, G, Durán, JM, and Slutej, D "Content aggregation, visualization and emergent properties in computer simulations". *SIGRAD 2010 – Content aggregation and visualization*, Mälardalen University. Sweden. pp. 77-83.

2009 1. Durán, JM "The measure of computer simulations". *Computing and Philosophy – CaP Course. Gordana Dodig-Crnkovic.* Mälardalen University. School of Innovation, Design and Engineering. Sweden.

LANGUAGES

Spanish: Mother tongue

English: Excellent (C2)

Portuguese: Excellent (C2)

German: Good (B1)

Dutch: Basic (A1)

ACADEMIC REFERENCES

References upon request

Last update: September, 2022