

# CURRICULUM VITAE

## Iñaki San Pedro

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University of the Basque Country (UPV/EHU)

Centro Carlos Santamaría, D10

Plaza Elhuyar, 2

20018 Donostia

Spain

[inaki.sanpedro@ehu.eus](mailto:inaki.sanpedro@ehu.eus)

Tel.: +34 94301 7424

Fax.: +34 94301 5470

### Current Position

Researcher

Department of Logic and Philosophy of Science

University of the Basque Country, UPV/EHU

### Qualifications

PhD Philosophy, University of the Basque Country, UPV/EHU, 2008

MSci Theoretical Physics, Royal Holloway University of London, 2001

### Awards and Fellowships

Young Researcher Grant. “*Climate Change Models and Simulations as Interventive Representations: Uncertainty, Evidence and Confirmation*” research project, funded by the Spanish Ministry of Economy and Competitiveness’ National Programme for Research Aimed at the Challenges of Society. University of the Basque Country UPV/EHU, 2015.

“*Ayuda Fundación BBVA a Investigadores, Innovadores y Creadores Culturales*”. BBVA Foundation, 2014.

Postdoctoral Research Fellowship. “*The Causal Power of Information in a Quantum World*” project, funded by the Templeton World Charity Foundation. University of Queensland, 2014. Declined.

“*Complutense del Amo*” Research Scholarship. Complutense University of Madrid, 2012.

“*Juan de la Cierva*” Research Fellowship. Spanish Ministry of Science and Innovation, 2010.

Postdoctoral Research Fellowship. Basque Regional Government (Spain), 2009.

Research Training Scholarship (Beca Formación de Personal Investigador, FPI). Spanish Ministry of Science and Technology, 2003

### Research Projects

- ▶ PI (Principal Investigator) *Climate Change Models and Simulations as Interventive Representations: Uncertainty, Evidence and Confirmation*, Spanish Ministry of Economy and Competitiveness (MINECO), project FFI2014-60403-JIN. Start 08/2015-end 07/2018. 130000 €.
- ▶ Pi *Causality, Locality and Free Will in Quantum Mechanics* (Causalidad, Localidad y Libre Albedrío en la Mecánica Cuántica). Funding by BBVA Foundation. Start 12/2014-end 11/2015. 16900 €.
- ▶ *Science in Society* (La Ciencia en Sociedad). Funding by the Department of Education, Language Policy and Culture, Basque Regional Government, project IT644-13. Principal Investigator: *Andoni Ibarra (University of the Basque Country, UPV/EHU)*. Start 01/2013-end 12/2018.
- ▶ *Causality, Inference and Science* (Causalidad, Inferencia y Ciencia). Funding by the Spanish Ministry of Science and Innovation, project FFI2011-29834-C03-01. Principal Investigator: Mauricio Suárez (Complutense University Madrid). Start 01/2012-end 12/2014.

- ▶ *netCREP* (Culturas, Representaciones, Espacios y Prácticas). Funding by the Department of Education, Madrid Regional Government. Net coordinator: Javier Ordóñez (Autonomous University Madrid). Start 01/2010-end 12/2011.
- ▶ *Quantum Propensities and Quantum Probabilities: Representation and Application* (Propensiones y Probabilidades Cuánticas: Representación y Aplicación). Funding by the Spanish Ministry of Science and Education, project FFI2008-06418-C03-01. Principal Investigator: Mauricio Suárez (Complutense University Madrid). Start 10/2008-end 12/2011.
- ▶ *Methods of Causal Inference and Scientific Representation* (Métodos de Inferencia Causal y Representación Científica). Funding by Complutense University Madrid. Principal Investigator: Mauricio Suárez (Complutense University Madrid). Start 01/2006-end 12/2008.
- ▶ *Causality, Propensities and Causal Inference in Quantum Physics* (Causalidad, Propensiones e Inferencia Causal en Física Cuántica). Funding by the Spanish Ministry of Science and Education, project HUM2005-01787-C03-01. Principal Investigator: Mauricio Suárez (Complutense University Madrid). Start 10/2005-end 0/2008.
- ▶ *Causality, Determinism and Probability in Quantum Mechanics and Relativity Theory* (Causalidad, Determinismo y Probabilidad en la Mecánica Cuántica y la Teoría de la Relatividad). Funding by the Spanish Ministry of Science and Technology, project BFF2002-01552. Principal Investigator: Mauricio Suárez (Complutense University Madrid). Start 10/2002-end 10/2005. PI. Ideas representacionales en la historia, PI-199792. Basque Government. 01.1998-12.2000.
- ▶ *Quantum Transport on an Atomic Scale (QTRANS)*, European Commission Research Training Networks. Funding by CORDIS, European Union. Coordinator: Francesca Mota Furtado (Royal Holloway University of London). Start 10/2000-end 10/2003.

### Positions Held

- From October 2015. Researcher. Department of Logic and Philosophy of Science, University of the Basque Country, UPV-EHU. Donostia-San Sebastián, Spain.
- 08/2013 – 09/2015. Postdoctoral Researcher. Department of Logic and Philosophy of Science, University of the Basque Country, UPV-EHU. Donostia-San Sebastián, Spain.
- 01/2010 – 12/2012. Juan de la Cierva Research Fellow. Department of Logic and Philosophy of Science, Complutense University. Madrid, Spain.
- 01/2009 – 12/2009. Basque Regional Government Post-doctoral Fellow. Center for Philosophy of Natural and Social Sciences (CPNSS), London School of Economics (LSE). London, UK.
- June – December 2008. Post-doctoral Researcher (part-time). Department of Logic and Philosophy of Science, University of the Basque Country, UPV-EHU. Donostia-San Sebastián, Spain.
- April – June 2008. DivulgaUNED Science Communication Project, Spanish Open University (UNED). Madrid, Spain.
- September 2003 – August 2007. Graduate Research Student. Department of Logic and Philosophy of Science, Complutense University. Madrid, Spain.

### Research Stays Abroad

- (2009). Centre for Philosophy of Natural and Social Science (CPNSS), London School of Economics and Political Science (LSE), UK. (52 weeks).
- (2006). Instituto de Investigaciones Filosóficas, UNAM, México. (4 weeks).
- (2006). Center for Time, University of Sidney, Australia. (13 weeks).
- (2005). Department of History and Philosophy of Science, Eötvös Loránd Tudományegyetem (ELTE), Budapest, Hungary. (13 weeks).
- (2004). Department of History and Philosophy of Science, Eötvös Loránd Tudományegyetem (ELTE), Budapest, Hungary. (9 weeks).

### Service to the Profession

- ▶ Referee:  
*Philosophy of Science; European Journal for Philosophy of Science; Foundations of Physics; International Journal for Theoretical Physics; Studies in History and Philosophy of Modern Physics; Synthese; Topoi; Theoria; Teorema; Revista de Filosofía; Kairós.*
- ▶ Conference Organisation:  
- Member of the Organising Committee. *Responsible research and Innovation (RRI): The Problematic Quest for “Right” Impacts Conference*, University of the Basque Country UPV/EHU, 10-11 March 2016.

- Co-organiser. *Modelling and Representation. How to make World(s) with Symbols Conference*, University of the Basque Country UPV/EHU, 10-12 December 2015.
  - Organiser. International Workshop '*Causality and Non-locality in Physics (Quantum and Classical)*', University of the Basque Country, UPV/EHU, 12-13 November 2015.
  - Co-organiser, International Workshop '*Probability and Statistics in Physics*', Universidad Complutense de Madrid, 17 December 2011.
  - Co-organiser, International Workshop '*Causality, Inference and Science*', Universidad Complutense de Madrid, 4-5 March 2011.
  - Member of the Local Organising Committee, *I Conference of the European Philosophy of Science Association*, EPSA07. Universidad Complutense de Madrid, 10-14 octubre 2007.
- Scientific Committees:
    - *4th Conference on History of Quantum Physics (HQ-4)*, Donostia International Physics Center (DIPC)/Max Planck Institute for the History of Science (MPIWG), Donostia-San Sebastián (Spain), 16-18 July 2015.
    - *3rd Young Researchers in Philosophy International Conference (III Congreso Internacional de Jóvenes Investigadores en Filosofía)*, Complutense University, Madrid, 26-29 December 2010.
  - Membership in Professional Associations:
    - European Philosophy of Science Association (EPSA); British Society for the Philosophy of Science (BSPS); Philosophy of Science Association (PSA); Spanish Society for Logic, Methodology and Philosophy of Science (SLMFCE).

## Research Interests

Causality and locality in quantum mechanics; Causation and space-time; Determinism and indeterminism; Causal inference; Philosophy of probability.

Computer simulations and models; Modelling and scientific representation; Climate change.

## Publications

### **Edited Books and Special Issues**

- San Pedro, I., and A. Ibarra, eds. "Special Issue "Modelling and Representation: How to Make World(s) with Symbols"." *Synthese* (in preparation).

### **Papers in Journals**

- San Pedro, I. (2014) "Measurement Independence, Parameter Independence and Non-locality." *European Journal for Philosophy of Science*, 4: 369–374.
- San Pedro, I. y Suárez, M. (2014) "Indeterminismo e Inferencia Causal", *Teorema*, 33: 95–109.
- Rédei, M. and San Pedro, I. (2012). "Distinguishing Causality Principles", *Studies in History and Philosophy of Modern Physics*, 43: 84–89.
- San Pedro, I. (2012). "Many Worlds: Quantum Theory and Reality?", *Analysis*, 72: 386–95.
- San Pedro, I. (2011). "Causation, Measurement Relevance and No-conspiracy in EPR", *European Journal for Philosophy of Science*, 2: 137–56.
- San Pedro, I. (2010). "Causal Relevance of Measurement Operations in EPR: An Ontological View" (in Spanish), *Azafea*, 12: 19–34.

### **Book Chapters**

- San Pedro, I. "On Time Order and Causal Order in the EPR Experiment." In *Making it Formally Explicit: Probability, Causality and Indeterminism*, edited by G. Hofer-Szabó and L. Wroński. Springer, In press.
- San Pedro, I. (2013). "On Free Will and No-conspiracy", in T. Sauer and A. Wüthrich (Eds.) *New Vistas on Old Problems: Recent Approaches to the Foundations of Quantum Mechanics*. Max Planck Research Library for the History and Development of Knowledge. Edition Open Access, Berlin, 2013, pp. 87–102.
- San Pedro, I. (2011). "Venetian Sea Levels, British Bread Prices and Reichenbach's Principle of the Common Cause: A Reassessment", in H. de Regt, S. Okasha and S. Hartmann (Eds.), *EPSA Philosophy of Science: Amsterdam 2009*, Springer, Dordrecht, Heidelberg, London, New York, 2011, pp. 341–54.
- Suárez, M. and San Pedro, I. (2010) "Causal Markov, Robustness and the Quantum Correlations", in M. Suárez (Ed.) *Causes, Probabilities and Propensities in Physics*, Synthese Library, Springer, pp. 173–93. - Ibarra, A., "La interpretación estructuralista del 'Statement View'", in L.M. Peris-Viñé (ed.), *Filosofía de la ciencia en Iberoamérica: metateoría estructural*, Madrid, Tecnos, 2012, 82-102.
- San Pedro, I. and Suárez, M. (2009). "Reichenbach's Common Cause Principle and Indeterminism: A Review", in J.L. González Recio (Ed.) *Philosophical Essays in Physics and Biology*, Georg Olms Verlag, 2009, pp. 223–250.

### **Other Publications**

- San Pedro, I. (2012). "Violation of Measurement Independence without Conspiracy", in C. Martínez Vidal, J. L. Falguera, J. M. Sagüillo, V. M. Verdejo and M. Pereira-Fariña (Eds.) Proceedings of the VII Conference of the Spanish Society for Logic, Methodology and Philosophy of Science. Universidade de Santiago de Compostela, Santiago de Compostela, 2012, pp. 520–28.
- San Pedro, I. (2009). "Common Causes, Measurement Dependence and No-conspiracy: Ontological Implications", in J. Alcolea, V. Iranzo, A. Sánchez and J. Valor (Eds.) Proceedings of the VI Conference of the Spanish Society for Logic, Methodology and Philosophy of Science. Universitat de València, València, 2009, pp. 427–32.
- San Pedro, I. and Suárez, M. (2008). "Reichenbach's Common Cause Principle and Indeterminism: A Review", Contingency and Dissent in Science Technical Report 07/08, CPNSS, LSE.
- Suárez M. and San Pedro, I. (2007) "EPR, Robustness and the Causal Markov Condition". LSECPNSS Contingency and Dissent in Science Discussion Papers, 04/07.

### **Talks at Conferences, Workshops and Scientific Meetings**

Over 30 talks at international conferences, seminars and scientific workshops.