Matías Osta-Vélez

Citizenship: Uruguayan/Italian

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AOS

Philosophy of Cognitive Science, General Philosophy of Science, Philosophy of Language.

AOC

Cognitive Psychology, Mathematical Logic, Epistemology.

EDUCATION

PhD in Philosophy (double degree) | *summa cum laude*   2017 – 2020

Munich Center for Mathematical Philosophy, LMU, Munich.

Université Paris 1 Panthéon-Sorbonne, IHPST, Paris.

- *Thesis title*: "Inference and the Structure of Concepts"
- *Committee*: Stephen Hartmann (supervisor), Max Kistler (supervisor), Igor Douven (CNRS), Paul Égré (Institut Jean Nicod), Philip Koralus (Oxford), Peter Gärdenfors (Lund).

M.A. in Logic, Epistemology, and Philosophy of Science | *summa cum laude*   2013 – 2014

Unievrsité Paris 4 Sorbonne

- *Thesis title*: "Logic, reasoning, and rationality"
- *Examiners*: Pierre Wagner and Marco Panza

M.A. in Mathematical Logic | *cum laude*   2012 – 2013

Unievrsité Paris 1 Panthéon-Sorbonne.

B.A. (4 years) in Philosophy| 2005 – 2010

University of the Republic.   Montevideo, Uruguay

PUBLICATIONS

Articles:

1. Osta-Vélez, M. & Gärdenfors, P. Analogy as a search procedure: A dimensional view. Forthcoming in *Journal of Experimental & Theoretical Artificial Intelligence*.

2. Osta-Vélez, M. & Gärdenfors, P. (2021). Nonmonotonic reasoning, expectations orderings, and conceptual spaces. *Journal of Logic, Language and Information*, *31*, 70-97.

3. Osta-Vélez, M. & Gärdenfors, P. (2020).Category-based induction in Conceptual Spaces. *Journal of Mathematical Psychology*, *96*, 102357.

4. Osta-Vélez, M. (2019). Methods of representation as inferential devices. *Journal for General Philosophy of Science*, *50*(2), 231-245.

    Under review:

5. Gärdenfors, P. & Osta-Vélez, M. Reasoning with generics as expectations. Under review.

6. Douven, I.,Verheyen, S., Elqayam, S., Gärdenfors, P.,& Osta-Vélez, M. Similarity-based reasoning in conceptual spaces. Under review.

7. Explicating material inference with conceptual spaces. Under review.

8. Osta-Vélez, M. (2021). Inference and the structure of concepts. PhD Thesis. Ludwig-Maximilians Universität, Fakultät für Philosophie. DOI 10.5282/edoc.27633 [Online publication].

    Book chapters and published thesis:

9. Osta-Vélez, M. (forthcoming). Language, concepts, and the nature of inference. In E. Caorsi and R. Navia (Eds.) *Language, Meaning, and Philosophy: Philosophy of Language in Uruguay.* Lexington books.

10. Osta-Vélez, M. (2016). La matematización galileana de la naturaleza según Husserl. In C. Pallas (Ed.), *La Filosofía y su Enseñanza*, (pp. 87-104). Montevideo: ANEP-CFE.

    Book reviews:

11. Osta-Vélez, M. (2021). Review of S. Arfini, *Ignorant cognition. Studies in Philosophy and Education*, *40*, 231–236.

12. Osta-Vélez, M. (2019). Review of H. Mercier & D.Sperber, *The Enigma of Reason. Philosophical Psychology*, *6*, 995-999.

ACADEMIC APPOINTMENTS

NeuroMind postdoctoral fellow	May 2021 –
Center for Mind and Cognition, Ruhr University Bochum.	Bochum, Germany
Lecturer in Philosophy of Science (part-time)	2017 – 2022
Faculty of Humanities, University of the Republic.	Montevideo, Uruguay
External member	2021 –
Munich Center for Mathematical Philosophy, LMU.	Munich, Germany

Doctoral fellow   2017 – 2020

Munich Center for Mathematical Philosophy, Ludwig-Maximilians Universität.   Munich, Germany

Doctoral fellow   2016 – 2020

Institut d'Histoire et Philosophie des Sciences et des Techniques/
Département d'Études Cognitives, ENS-Paris 1.   Paris, France

Teaching assistant in Philosophy of Science   2014 – 2016

Faculty of Humanities, University of the Republic   Montevideo, Uruguay

Teaching assistant in Logic   2009 – 2011

Faculty of Humanities, University of the Republic   Montevideo, Uruguay

TEACHING

Reasoning, normativity, and cognitive biases   SS 2022

With Peter Brössel. M.Sc. in Cognitive Science, 30hs, Ruhr Universität Bochum.   Bochum, Germany

Theoretical foundations of the cognitive sciences   SS 2021

M.Sc. in Cognitive Science, 30hs, University of the Republic.   Montevideo, Uruguay

Theories of Concepts   SS 2021

M.A. in Philosophy, 30hs, University of the Republic.   Montevideo, Uruguay

Theories of Reasoning   WS 2020

M.A. in Philosophy of Science, 40hs, Ludwig-Maximilians Universität.   Munich, Germany

Reading seminar: Quine   SS 2019

M.A. in Philosophy, 20hs, University of the Republic.   Montevideo, Uruguay

Philosophical introduction to cognitive science   WS 2019

M.A. in Philosophy, 30hs, University of the Republic.   Montevideo, Uruguay

History and Philosophy of Science II (in Spanish)   2017, 2019, 2020, 2021

B.A. in Philosophy, 90hs, University of the Republic.   Montevideo, Uruguay

Epistemology (in french)   Fall 2019

B.A. in Philosophy, 45hs, University of Paris 1 Panthéon-Sorbonne.   Paris, France

Philosophical Methodology (in Spanish)   2015, 2016

B.A. in Philosophy, 90hs, University of the Republic.   Montevideo, Uruguay

Logic (in spanish)   2009, 2010, 2011

B.A. in Philosophy, 90hs, University of the Republic.   Montevideo, Uruguay

1. "Local and global prperties of concepts: a metacognitive perspective", Workshop *"Conceptual Spaces and Social Spaces"*, Université de Paris Cité, France , july 2022.

2. "Analogy as a search procedure", *Workshop "Concepts and Reasoning"*, Ruhr Universität Bochum , June 2022.

3. "Typicality in Reasoning", *LiRa Seminar*, University of Amsterdam, October 2021.

4. "Explicating material inferences", *European Society for Philosophy and Psychology*, Leipzig University, September 2021.

5. "Inference and the structure of mental representations", *East European Network for Philosophy of Science*, July 2021.

6. "Modeling categorical inference in conceptual spaces" (with Peter Gärdenfors), *The Complexity of Cognition*, XVI AISC annual conference, Roma Tre University, December 2019.

7. "Grounding mathematical concepts in practices" (with Guillermo Nigro), *Novermbertagung on the History of Mathematics*, Strasbourg University, November 2019.

8. "Category-based induction in Conceptual Spaces", *Cognitive Science seminar*, Philosophy Department, Lund University, April 2019.

9. "Formal and Conceptual Inference", *iCog5: Interdisciplinary approaches to higher cognitive function*, University of Reading, February 2019.

10. "Formal and Conceptual Inference", *WIP seminar*, Munich Center for Mathematical Philosophy (LMU), January 2019.

11. "Conceptual Change and (Philosophy of) Mathematics" (with Marina Imocrante), *Novermbertagung on the History of Mathematics*, University of Sevilla, November 2018.

12. "MBR in Toulmin's procedural account of concepts and explanations", *20th Model-based Reasoning in Science and Technology*, University of Sevilla, October 2018.

13. "Methods of Representation as Inferential Devices", *Congrès de la SoPhA*, Université Catholique de Louvain, July 2018.

14. "The role of mathematical structures in conceptual change", *Congrès de la SoPhA (Symposium on the philosophy of mathematics)*, Université Catholique de Louvain, July 2018.

15. "Styles of Reasoning and Modularity in Scientific Cognition", *Salzburg Conference for Young Analytic Philosophy*, Salzburg University, September 2017.

16. "Mathematization of movement in Galileo", *Congreso de la Sociedad Filosófica del Uruguay*, October 2016.

HONORS, GRANTS, AND AWARDS

NeuroMind fellowship 2021-2023

Center for Mind and Cognition, Ruhr-Universität Bochum.

Double summa cum laude - PhD thesis and defense 2020

Highest distinction awarded to doctoral students by LMU.

Deutsche Forschungsgemeinschaft one-year research grant 2019-2020

Munich Center for Mathematical Philosophy, LMU.

Visiting Fellow 2019,2022

Philosophy and Cognitive Science Department, Lund University.

ANII PhD scholarship 2016-2020

Full funding for doctoral studies by the National Agency for Research and Innovation of Uruguay

Distinction for excellent master's theses 2014

Online publication of master thesis by the University of Paris 1

ANII Master scholarship 2016-2020

Full funding for master studies by the National Agency for Research and Innovation of Uruguay

ACADEMIC SERVICE

Referee:

- Journal of Mathematical Psychology

- Inquiry

- Pragmatics & Cognition

- Foundations of Chemistry

- Elenkhos

- Crítica

Organisation:

- Co-organiser of the *International Seminar on Understanding*, IHPST, Université Panthéon-Sorbonne, 2018-2019.

- Co-organiser of the reading group on Inference and Reasoning, MCMP, LMU, 2019-2022.

- Co-organiser of the research seminar on rationality, at Ruhr Universität Bochum, Summer Semester 2022.

- Main organiser of the workshop "Concepts and Reasoning" at Ruhr Universität Bochum, 20-21 June 2022.

M.A. Thesis advisor:

Sebastián Peralta (University of the Republic): "Phenomenal consciousness from an evolutionary perspective".

Fernanda Joubanoba (University of the Republic): "Abductive reasoning in science".

LANGUAGES

Languages: English (C2), Spanish (Native), French (C2)
Others: Python (Basic), R (Intermediate), LaTex (intermediate)