# Marta Fiori Carones

## Curriculum Vitae

#### PERSONAL DATA

Birth: 5/12/1991, Italy

Nationality: Italian

Web page: https://martafioricarones.github.io Email: marta.fioricarones@outlook.it Address: Institute of Mathematics

University of Warsaw

Banacha 2

02-097 Warszawa, Poland

#### CURRENT POSITION

Postdoctoral fellow at the Institute of Mathematics, University of Warsaw

#### AREAS OF INTERESTS

Mathematical logic, reverse mathematics, foundations of mathematics, computability theory, philosophy of mathematics

#### **EDUCATION**

2016-2020 PhD in Mathematics, Università degli Studi di Udine,

Dissertation: "Filling cages. Reverse mathematics and combinatorial principles"

Supervisor: Prof. Alberto Marcone

2014-2016 MA (with distinction) in Philosophy, Università degli Studi di Milano

Dissertation: "Il teorema di Tennenbaum e i modelli dell'aritmetica" (Tennen-

baum's Theorem and Models of Arithmetic) Advisors: Prof. Silvio Bozzi, Prof. Edoardo Ballo

2010-2014 BA (with distinction) in Philosophy, Università degli Studi di Milano

Dissertation: "Oggetti e strutture: diverse prospettive sui numeri naturali" (Struc-

tures and Objects: different perspectives on natural numbers)

Advisor: Prof. Edoardo Ballo

Last updated: September 2021

## EMPLOYMENT

 $\begin{array}{cc} 10.2021\text{-}12.2023 & \text{Researcher} \\ & \text{Sobolev institute of mathematics, Novosibirsk} \end{array}$ 

09.2020-08.2021 Postdoctoral fellow

Institute of Mathematics, University of Warsaw

01-06.2020 Research assistant

Munich Center for Mathematical Philosophy, LMU Munich

# INVITED TALKS

09.2021	The epistemological reading of reverse mathematics through an example
	Workshop in Philosophy of Computing
	Politechnika Warszawska, online
07.2021	An algorithm for reorienting infinite pseudo-transitive graphs
	Computability and Complexity in Analysis, Universität der Bundeswehr München,
	online
05.2021	A characterisation theorem for uniquely orderable interval graphs
	filoLOGICA, Università degli Studi di Bologna, online
02.2021	The strength of ADS and CAC in the absence of $\Sigma_1^0$ -induction
	South Eastern Logic Symposium 2021, online
05.2020	A theorem from Rival and Sands and reverse mathematics
	Online seminar on Computability Theory and Applications
03.2020	(Extra)ordinary equivalences with ADS
	ASL North American Meeting, special session on reverse mathematics and com-
	putability theory of Ramsey-theoretic principles (cancelled)

#### CONTRIBUTED TALKS

Measuring the strength of Ramsey-theoretic statements over  $RCA_0^*$ 07.2021 Logic Colloquium 2021, Poznan, online 07.2021 Transitive reorientations of pseudo-transitive infinite graphs Computability in Europe 2021, Ghent, online 05.2020 Unique orderability of infinite interval graphs and reverse mathematics Logic seminars, Università di Udine, online 12.2019 An on-line algorithm to reorient pseudo-transitive graphs informal Formal Methods Meetings, Università di Udine 08.2019 A theorem of ordinary mathematics equivalent to ADS 16th International Congress on Logic, Methodology and Philosophy of Science and Technology, Prague 07.2019 Reverse mathematics of a theorem about posets of finite width Computability in Europe 2019, Durham 03.2019 Catching the strength of a theorem about chains with nice properties in posets of finite width Proofs, Constructions, and Computations Seminar, University of Leeds 08.2018 The reverse mathematics of a theorem about subgraphs with nice properties Computability in Europe 2018, Kiel 07.2018 The strength of a theorem about subgraphs with nice properties Logic Colloquium 2018, Udine 02.2018 On the adjacency of vertices to the vertices of an infinite subgraph Postgraduate Logic Seminar, University of Leeds 01.2018 Interval graphs and reverse mathematics Proofs, Constructions, and Computations Seminar, University of Leeds 10.2017 Interval graphs and reverse mathematics Forth Symposium on the Foundations of Mathematics, Munich

#### **PUBLICATIONS**

- 2021 Marta Fiori-Carones, Paul Shafer, Giovanni Soldà, An inside-outside Ramsey theorem and computability theory (to appear in Transactions of the American Mathematical Society)
- 2021 Marta Fiori-Carones, Alberto Marcone, Paul Shafer, Giovanni Soldà, (Extra)ordinary equivalences with the ascending/descending sequence principle (submitted)
- 2021 Marta Fiori-Carones, Leszek Aleksander Kołodziejczyk, Katarzyna W. Kowalik, Weaker cousins of Ramsey's theorem over a weak base theory (to appear in Annals of Pure and Applied Logic)
- 2021 Marta Fiori-Carones, Alberto Marcone, To reorient is easier than to orient: an online algorithm to reorient pseudo-transitive graphs, *Computability* 10, pp. 215-233
- 2021 Marta Fiori-Carones, Alberto Marcone, Uniquely orderable interval graphs (submitted)
- 2020 Marianna Antonutti Marfori, Marta Fiori-Carones, Intensional aspects of computability theory (in preparation)

#### GRANTS

- 2019 ASL, travel grant for Logic Colloquium 2019, Prague
- 2019 ASL, travel grant for Computability in Europe 2019, Durham
- 2018 Women in Computability, travel grant for Computability in Europe 2018, Kiel
- 2018 ASL, travel grant for Computability in Europe 2018, Kiel
- 2018 National University of Singapore, Graduate Summer School in Logic organised by IMS (Institute for Mathematical Sciences)
- 2018 ASL, travel grant for the conference "Ramsey's theory and computability", Rome
- 2017 AILA, XXVI Incontro AILA (Italian Association for Logic and Applications)
- 2017 ASL, travel grant for Logic Colloquium 2017, Stockholm
- 2017 Scandinavian Logic Society, Third Nordic Logic Summer School, Stockholm
- 2015 AILA, AILA Summer School of Logic
- 2-7.2015 Erasmus Placement, Department of Logic, History and Philosophy of Science, Universitat de Barcelona
  - 2013 AILA, AILA Summer School of Logic

#### SUMMER SCHOOLS

2018	IMS Graduate Summer School in Logic, National University of Singapore
2017	Third Nordic Logic Summer School, University of Stockholm
2015	Logic Summer School organized by AILA (Italian Association for Logic and Applications)
2014	Logic Summer School organized by AILA

- 2013 Logic Summer School organized by AILA
- 2012 International Summer School in Cognitive Sciences and Semantics, University of Latvia

## RESEARCH VISITS

01-03.2018	School of Mathematics, University of Leeds
01-05.2019	School of Mathematics, University of Leeds

## TEACHING EXPERIENCES

05-06.2019	Teaching assistant for the course of Linear Algebra,
	BA degree in Internet of things and big data, Università di Udine, 12 hours
10-11.2018	Teaching assistant for the course of Principles of Mathematics,
	BA degree in Internet of things and big data, Università di Udine, 12 hours
05-06.2018	Teaching assistant for the course of Linear Algebra,
	BA degree in Internet of things and big data, Università di Udine, 12 hours
10-11.2017	Teaching assistant for the course of Principles of Mathematics,
	BA degree in Internet of things and big data, Università di Udine, 12 hours

## MISCELLANEOUS

Collector for Report of Dagstuhl Seminar "Measuring the Complexity of Compu-2018 tational Content: From Combinatorial Problems to Analysis"

2018 Member of local organizing committee of Logic Colloquium 2018

## **AFFILIATIONS**

Associazione Italiana di Logica e sue Applicazioni, AILA Association for Symbolic Logic, ASL Computability in Europe, CiE

#### LANGUAGES

Mother tongue Italian

English Fluent French Good Spanish Good

## REFERENCES

Leszek Kołodziejczyk, Uniwersytet Warszawski lak@mimuw.edu.pl Alberto Marcone, Università di Udine Paul Shafer, University of Leeds

alberto.marcone@uniud.itp.e.shafer@leeds.ac.uk