

## Contact Information

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## Personal Data

Date of Birth: March 16, 1982  
Place of Birth: Udine  
Nationality: Italy

## Research profile

ORCID iD: 0000-0003-4965-9271  
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## Employment

2016–now: Postdoctoral Researcher, University of Lisbon  
Mentor: Fernando Ferreira  
2014–2016: JSPS Postdoctoral Research Fellow, Tohoku University  
Mentor: Kazuyuki Tanaka

## Education

2011–2014: PhD in Mathematics, University of Udine (March 14, 2014)  
PhD Advisor: Alberto Marcone  
08/2013–11/2013: Visiting scholar at University of Berkeley  
Mentor: Antonio Montalban  
03/2012–09/2012: Visiting scholar at University of Chicago  
Mentor: Antonio Montalban  
2007–2010: MSc with honor in Mathematics, University of Udine  
MSc Thesis Advisor: Franco Parlamento  
2001–2006: BSc with honor in Mathematics, University of Udine  
BSc Thesis Advisor: Franco Parlamento

## Research Interests

Mathematical logic: reverse mathematics, computability theory, constructive mathematics, type theory, proof theory, foundations of mathematics.

## Papers

- Emanuele Frittaion. On Goodman realizability. Accepted for publication in *Notre Dame Journal of Formal Logic*.

- Emanuele Frittaion, Silvia Steila, Keita Yokoyama and Florian Pelupessy. The strength of SCT soundness. *Journal of Logic and Computation* online, 2018.
- Emanuele Frittaion, Silvia Steila, and Keita Yokoyama. The strength of the SCT criterion. *Theory and Applications of Models of Computation 2017*. LNCS 10185 Springer: 260–273, 2017.
- Emanuele Frittaion. Brown’s Lemma in second-order arithmetic. *Fundamenta Mathematicae* 238: 269–283, 2017.
- Emanuele Frittaion, Ludovic Patey. Coloring the rationals in reverse mathematics. *Computability* vol. 6, no. 4: 319–331, 2017
- Emanuele Frittaion, Matt Hendtlass, Alberto Marcone, Paul Shafer, and Jeroen Van der Meeren. Reverse mathematics, well-quasi-orders, and Noetherian spaces. *Archive for Mathematical Logic* 55(3): 431–459, 2016.
- Emanuele Frittaion, Alberto Marcone. Reverse Mathematics and initial intervals. *Ann. Pure App. Logic* 165(3): 858–879, 2014.
- Emanuele Frittaion, Alberto Marcone. Linear extensions of partial orders and reverse mathematics. *Math. Log. Quart.* 58(6): 417–423, 2012.

## Fellowships

- 2014–2016: JSPS Postdoctoral Fellowship Long Term  
2011–2013: Graduate Fellowship, University of Udine

## Grants & projects

- 2016–2017: Collaborator of the FCT R&D Unit project  
Reference number: 147209  
Coordinator: Luis Fernando Sanchez Rodrigues  
Budget: 939,798 Euro
- 2015–2016: Recipient of the Grant-in-Aid for JSPS Fellows  
Reference number: 14F04780  
Budget: 2,300,000 Yen

## Activities

- 2016–now: Reviewer for Mathematical Reviews

## Conference Activities

- OC member of Axiomatic Thinking 2017, Lisboa
- OC member of CTFM 2015, Tokyo

## Invited Talks

- *On Goodman realizability*. Logic Seminar, University of Lisbon, November 2017.
- *Size-change termination in reverse mathematics*. Logic Seminar, University of Lisbon, January 2017.

- *Brown's Lemma in second-order arithmetic*. Sendai Logic School, Sendai, January 2016.
- *Brown's Lemma in second-order arithmetic*. Workshop "New challenges in reverse mathematics". IMS, Singapore, January 2016.
- *Coloring the rationals in reverse mathematics*. CTFM 2015, Tokyo Institute of Technology, September 2015.
- *A partition theorem for rational numbers and combinatorial principles on partial orders*. Constructivism and Computability, Kanazawa, March 6, 2015.
- *From well-quasi-order to Noetherian spaces*. Sendai Logic Seminar, Tohoku University, December 16, 2014.
- *Well-scattered partial orders and Erdős-Rado*. CTFM 2014, Tokyo Institute of Technology, February 18, 2014.
- *Some reverse mathematics results about partial orders*. Logic Seminar, University of Notre Dame, May 3, 2012.
- *Some reverse mathematics results about partial orders*. Logic Seminar, University of Chicago, April 11, 2012.

### Selected Contributed Talks

- *The strength of the SCT criterion*. TAMC 2017, University of Bern, April 20-22, 2017.
- *Analyzing Size Change Termination in Reverse Mathematics*. CTFM 2016, Waseda University, Tokyo, September 2016.
- *Well-scattered partial orders and Erdős-Rado*. XXV incontro AILA, Pisa, 2014.
- *Initial intervals of partial orders and reverse mathematics*. LC 2013, University of Evora, July 26, 2013.
- *Reverse mathematics of posets: counting initial intervals*. CiE 2013, University of Milan, July 4, 2013.
- *Linear extensions of partial orders and reverse mathematics*. GSCL 2012, University of Notre Dame, April 28, 2012.

### Conferences & Workshops

- Conference in honor of the 70th anniversary of Peter J. Cameron "All kinds of mathematics remind me of you", Lisbon, 2017.
- Theory and Applications of Models of Computation, TAMC 2017, Bern, 2017.
- Workshop "Computability Theory". Ghent, 2016.
- CiE Computability in Europe 2016. Paris, 2016.
- Workshop "Mathematics for Computation M4C". Germany, 2016.
- Workshop "New challenges in reverse mathematics". IMS, Singapore, 2016.

- CTFM 2015. Tokyo Institute of Technology, Japan, 2015.
- CiE Computability in Europe 2015. Bucharest, 2015.
- Workshop “Sets and Computation”. IMS, Singapore, April-May 2015
- Workshop “Constructivism and Computability”. Kanazawa, Japan, March 2015.
- Workshop “Proof Theory and Computability Theory”. RIMS, Kyoto, Japan, December 2014.
- CTFM 2014. Tokyo Institute of Technology, Japan, February 2014.
- Logic Colloquium 2013. University of Evora, 2013.
- CiE Computability in Europe 2013. University of Milan, 2013.
- Young Set Theory Workshop 2013. Oropa, 2013.
- Workshop “Definability in computable structures”. University of Chicago, May 12-13, 2012.
- 2012 Graduate Student Conference in Logic. University of Notre Dame, April 28-29, 2012 .
- 2012 North American Annual Meeting. University of Wisconsin Madison, March 31–April 3, 2012.
- Workshop “New Trends in Gödelian Incompleteness and Combinatorics”. Oberwolfach, 2011.
- Reverse Mathematics Workshop. University of Chicago, 2011.
- Second Training Maloa Workshop. University of Leeds, 2011.

### Teaching Experience

- Instructor of “Matematica di Base”, Faculty of Engineering, University of Udine, academic year 2014/2015.
- Instructor of “Logica e Laboratorio di Logica” within the project PAS “Percorsi Abilitanti Speciali”, University of Udine, academic year 2014/2015.
- Instructor of Calculus, Fu Jen Catholic University, Taipei Taiwan, July-August 2014.
- Teaching Assistant for “Linguaggio Matematico”, Department of Mathematics, University of Udine, academic year 2012/2013.
- Instructor of “Matematica di Base”, Faculty of Engineering, University of Udine, academic year 2012/2013.
- Teaching Assistant for “Logica Matematica”, Department of Mathematics, University of Udine, academic year 2011/2012.
- Teaching Assistant for “Linguaggio Matematico”, Department of Mathematics, University of Udine, academic year 2011/2012.