Pietro Sabelli's
Curriculum Vitae

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Institute of Philosophy of the Czech Academy of Sciences
Jilská 1, Praha 1, 110 00

Current Position

2024 – 2025
Postdoctoral researcher. Department of Logic, Institute of Philosophy of the Czech Academy of Sciences

Education

2021 – 2024
Ph.D. in Mathematics. Department of Mathematics, University of Padua
Supervisors: Prof. Maria Emilia Maietti, Prof. Samuele Maschio
Thesis title: Around the Minimalist Foundation: (Co)Induction and Equiconsistency
Defended on December 16, 2024

2018 – 2020
M.Sc. in Mathematics. Department of Mathematics, University of Padua
Supervisor: Prof. Samuele Maschio
Thesis title: Internalizzazione della teoria dei tipi *(Internalization of Type Theory)*
Defended on December 11, 2020
Grade: 110/110 cum laude

2014 – 2017
B.Sc. in Mathematics. Department of Mathematics, University of Trento
Supervisor: Prof. Roberto Zunino
Thesis title: Principio di onniscienza in matematica costruttiva *(Principle of omniscience in constructive mathematics)*
Defended on November 20, 2017
Grade: 109/110

Publications

2025
Equiconsistency of the Minimalist Foundation with its classical version. With M. E. Maietti. *Annals of Pure and Applied Logic*, Volume 176, Issue 2. DOI: 10.1016/j.apal.2024.103524

2022
A topological counterpart of well-founded trees in dependent type theory. With M. E. Maietti. *Electronic Notes in Theoretical Informatics and Computer Science*, Volume 3. Proceedings of MFPS XXXIX. DOI: 10.46298/entics.11755

2021
On the Compatibility Between the Minimalist Foundation and Constructive Set Theory. With S. Maschio. *Revolutions and Revelations in Computability. CiE 2022. Lecture Notes in Computer Science*, vol 13359. Springer, Cham. DOI: 10.1007/978-3-031-08740-0_15

Preprints

2024
A topological reading of inductive and coinductive definitions in Dependent Type Theory. Submitted. arXiv:2404.03494

Presentations at conferences and seminars

Mini-Workshop on Structures in Foundations of Mathematics.
Title of talk: *Around the Minimalist Foundation: (Co)Induction and Equiconsistency*
Padova, Italy. September 23, 2024

XXVIII Incontro di Logica AILA.
Title of talk: *A topological reading of (co)inductive definitions*
Udine, Italy. September 5, 2024

Trimester program on Prospects of Formal Mathematics.
Title of talk: *Peculiarities of the Minimalist Foundation for Formal Mathematics*
With M.E. Maietti. Bonn, Germany. June 2024

Workshop on Homotopy Type Theory / Univalent Foundations
Title of talk: *A topological reading of (co)inductive definitions in Dependent Type Theories*
Leuven, Belgium. April 4, 2024

Continuity, Computability, Constructivity. From Logic to Algorithms.
Title of talk: *Inductive and Coinductive predicates in the Minimalist Foundation*
Kyoto, Japan. September 26, 2023

Continuity, Computability, Constructivity. From Logic to Algorithms.
Title of talk: *Revisiting the equivalence between theories and models of dependent type theory using Curien's explicit syntax*
Pittsburgh, USA. February 10, 2023

Mathematical Foundations of Programming Semantics.
Title of talk: *A topological counterpart of well-founded trees in dependent type theory*
Online. June 23, 2023

Continuity, Computability, Constructivity. From Logic to Algorithms.
Title of talk: *On the relationship between well-founded trees and inductive generation of pointfree topology*
Padova, Italy. September 21, 2022

Computability in Europe: Revolutions and Revelations in Computability.
Title of talk: *On the compatibility between the Minimalist Foundation and Constructive Set Theory*
Swansea, UK. July 12, 2022

Research visits

Hausdorff Research Institute for Mathematics, Bonn, Germany.
Trimester program on Prospects of Formal Mathematics.
May 19 – June 7

Carnegie Mellon University, Pittsburgh, USA.
Host: Prof. Steve Awodey.
January 12 — March 29, 2023.

Graduate schools attended

School on Univalent Mathematics
Organized by Scuola Matematica Interuniversitaria (SMI)

Cortona, Italy. July 17-23, 2022

[Midlands Graduate School in the Foundations of Computing Science](#)
Organized by the University of Nottingham
Nottingham, UK. April 10-14, 2022

Awards

Winner of Premio Tesi 3+2 2021, awarded by AILA – Associazione Italiana di Logica
e sue Applicazioni – to the best M.Sc. thesis in Mathematical Logic.

Other scientific activities

Member of the Organising Committee of the [Mini-Workshop on Structures in Foundations of Mathematics](#)

Member of the Organising Committee of the [5th ItaCa Workshop 2024](#)

Member of the Organising Committee of the workshop [Continuity, Computability, Constructivity. From Logic to Algorithms](#)

Member of the Organising Committee of the [Workshop on Doctrines and Fibrations](#).