

Antonio Piccolomini d’Aragona

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via A. B. Lucarelli 49, 84014, Nocera Inferiore (SA), Italy

born 10/10/1986

Current position

Lecturer at the University of Siena, Department of social, political and cognitive sciences

Associate member of the Gilles Gaston Granger Center at the Aix-Marseille University

Education & Former positions

- September 2022 – July 2023 Post-doc researcher at the **Czech Academy of Sciences**
Department of Logic, Institute of Philosophy, project *Meaningful Formalism. A Philosophy of Mathematics for Type Theory* led by Ansten Klev
- October 2019 – August 2021 ATER at the **University of Aix-Marseille**
Department of Science and Department of Philosophy
- October 2014 – December 2019 **University of Aix-Marseille** – Aix-en-Provence/Marseille, France
“Sapienza” University of Rome – Rome, Italy
PhD in Philosophy
Mentors: Professors Gabriella Crocco (Aix-Marseille), Cesare Cozzo (Rome)
Dissertation: *Dag Prawitz’s theory of grounds*
Board: C. Cozzo (mentor), G. Crocco (mentor), E. Moriconi (University of Pisa - reviewer), P. Schroeder-Heister (University of Tübingen - reviewer), M. Quatrini (Aix-Marseille University - examiner), G. Sundholm (University of Leiden - examiner), L. Tranchini (University of Tübingen - examiner)
Italian final mark: Ottimo cum laude
[No final marks for PhD in French universities]
- 2009 – 2014 **“Sapienza” University of Rome** – Rome, Italy
MA in Philosophy
Mentors: Professors Cesare Cozzo, Emiliano Ippoliti
Dissertation (in Italian): *L’approccio costruttivista di Dag Prawitz alla nozione di conseguenza logica in alcuni suoi scritti recenti* [*Dag Prawitz’s constructivist approach to the notion of logical consequence in some of his latest writings*]
Final mark: 110/110 cum laude

2005 – 2009 **“Federico II” University of Naples** – Naples, Italy
BA in Philosophy
Mentors: Professor Nicola Grana
Dissertation (in Italian): *Ricerca sui fondamenti dell’ontologia di Heidegger. Analisi topologica* [Investigation into the foundations of Heidegger’s ontology. Topological analysis]
Final mark: 110/110 cum laude

2000 – 2005 **Liceo Ginnasio Statale “G. B. Vico”** – Nocera Inferiore (SA), Italy
High School Diploma (Liceo Classico)
Final mark: 100/100 with honourable mention by the examining board

Teaching

2022 – 2023 **University of Siena** – Siena, Italy
Lecturer at the Department of social, political and cognitive sciences
Teaching: Wittgenstein on the foundations of mathematics

2021 – 2022 **University of Siena** – Siena, Italy
Lecturer at the Department of social, political and cognitive sciences
Teaching: Logic and AI

2019 – 2021 **University of Aix-Marseille** – Aix-en-Provence/Marseille, France
ATER at the Department of Science and at the Department of Philosophy
Teaching: History and Philosophy of Science, Logic, Set Theory, History and Philosophy of Logic, Philosophy of Mathematics

2017 – 2018 **University of Aix-Marseille** – Aix-en-Provence/Marseille, France
Enseignant Vacataire at the Department of Philosophy
Teaching: Logic

2016 – 2017 **University of Aix-Marseille** – Aix-en-Provence/Marseille, France
Chargé de cours at the Department of Philosophy
Teaching: Logic

Publications (peer-reviewed)

2023 **Are proofs objects or acts? A comparison of Prawitz’s and Sundholm’s semantics**
A. Klev (ed), The architecture and archaeology of modern logic. Studies dedicated to Göran Sundholm
Publication type: chapter in Volume

The proof-theoretic square

Synthese

Publication type: article in Journal

Four constructivist attitudes in Prawitzian semantics

I. Sedlar (ed), The LOGICA Yearbook 2022

Publication type: chapter in Volume

Prawitz's epistemic grounding. An investigation into the power of deduction

Synthese Library, Springer

Publication type: monograph

2022 **A note on Etchemendy's and Prawitz's *reduction principles* for the Tarskian and model-theoretic concept of consequence**

Theoria. A Swedish journal of philosophy

Publication type: article in Journal

Prawitz's semantics and Walton's argument schemes: a tentative reading and application of Kreisel's informal rigour – with F. Montesi

P. Cantù, B. Halimi, G. Heinzmann and F. Patras (eds), Objectivity in mathematics, special issue of Noesis

Publication type: article in Journal

Calculi of epistemic grounding based on Prawitz's theory of grounds

Studia Logica

Publication type: article in Journal

Game of grounds – with D. Catta

G. Oliveri, S. Boscolo and C. Ternullo (eds), Objects, structures and logics, Boston studies in the philosophy and history of science

Publication type: chapter in Volume

Denotational semantics for languages of epistemic grounding based on Prawitz's theory of grounds

Studia Logica

Publication type: article in Journal

Proofs, grounds and empty functions: epistemic compulsion in Prawitz's semantics

Journal of philosophical logic

Publication type: article in Journal

- 2021 **La controversia sulla *Lehre* di Semmelweis: un case-study in sociologia delle controversie scientifiche** [The controversy over Semmelweis' *Lehre*: a case-study in the sociology of scientific controversies]
MEFISTO. Rivista di Medicina, Filosofia e Storia
 Publication type: article in Journal
- 2019 **Introduction: inferences and proofs** – with G. Crocco
G. Crocco and A. Piccolomini d'Aragona (eds), Inferences and proofs, special issue of Topoi. An international review of philosophy
 Publication type: article in Journal
- Dag Prawitz on proofs, operations and grounding**
G. Crocco and A. Piccolomini d'Aragona (eds), Inferences and proofs, special issue of Topoi. An international review of philosophy
 Publication type: article in Journal
- 2018 **A partial calculus for Dag Prawitz's theory of grounds and a decidability issue**
A. Christian et al. (eds), Philosophy of science - Between natural science, social science and the humanities
 Publication type: chapter in Volume
- 2016 **Riconoscibilità nelle semantiche di Dag Prawitz [Recognisability in Prawitz's semantics]**
M. Cruciani et al. (eds), "Apprendimento, Cognizione e Tecnologia: Atti del convegno AISC Mid-term 2016
 Publication type: abstract in Proceedings
- Recognition procedures and Dag Prawitz's theory of grounds**
M. Carrara, D. Chiffi and C. De Florio (eds), How to say "Yes" and "No". Logical approaches to modes of assertion and denial
 Publication type: abstract in Proceedings
- 2014 **L'opera di Gaetano Filangieri tra empietà e sedizione [Gaetano Filangieri's work between impiety and sedition]**
Rassegna storica salernitana
 Publication type: review in Journal

Forthcoming, submitted and in preparation

Introduction: deduction at the crossroads

forthcoming in *A. Piccolomini d'Aragona (ed), Perspectives on deduction, Synthese Library, Springer* [Manuscript of the Volume to be reviewed]

Informal and absolute provability: from Kreisel and Gödel to Prawitz and Girard – with D. Catta
submitted to *Philosophia scientiae*

A contribution to the Pasteur-Pouchet controversy: the metaphysical and historical background of Pouchet's endorsement to spontaneous generation
In Preparation

A note on schematic validity and completeness in Prawitz's semantics
In preparation

Schematic validity in Prawitz's semantics and the issue of intuitionistic completeness
In preparation

Some switch theorems for two approaches to proof-theoretic validity
In preparation

Peer-reviewed and invited talks

- September 2023 **Proof-theoretic topics from Prawitz and Sundholm**
Proof-Theoretic Semantics Symposium @Tableaux 2023, Czech Technical University [invited]
- September 2023 **Revolutions, paradigms and research programmes in logic: the case of the Realism vs Constructivism debate**
SILFS Triennial Conference "Logic, philosophy of science and global challenges, University of Urbino [peer-reviewed]
- July 2023 **What to prove and how to prove: two views on the distinction between proof-objects and proof-acts**
CIVIS Summer School "Meanings and understanding via proofs. Logical and epistemological approaches", University of Bucharest [invited]
- June 2023 **Revolutions, paradigms and research programmes in logic: the case of the Realism vs Constructivism debate**
LOGICA 2023, Institute of Philosophy of the Czech Academy of Sciences [peer-reviewed]
- June 2023 **Objects, acts, traces: a comparison of Prawitz's and Sundholm's semantics**
Institute of Philosophy, Czech Academy of Sciences [invited]
- June 2023 **Schematic validity and completeness in Prawitz's semantics**
Czech gathering of logicians 2023, University of Ostrava [peer-reviewed]

- May 2023 **Proofs: are they objects or acts?**
PhD Colloquium, Laboratoire Jean Alexandre Dieudonné, Université Côte d'Azur [invited]
- January 2023 **From normalisation to proof-theoretic semantics. A case of informal rigour?**
Logik Café, University of Wien [invited]
- December 2022 **Valid arguments, proofs and grounds. Epistemic compulsion in Prawitz's semantics**
Proofs, computation and meaning, University of Tübingen [peer-reviewed]
- December 2022 **Gödel's absolute notions of provability and definability: a tentative guide**
7th Panhellenic Conference on Philosophy of Science, National and Kapodistrian University of Athens [peer-reviewed]
- November 2022 **The proof-theoretic square**
Utrecht Autumn Workshop in Proof Theory, organised by the Proof Society at the University of Utrecht [peer-reviewed]
- September 2022 **Non-logical meaning and meaning of rules: a symmetry between local and logical validity in Prawitz's semantics**
LOGICA 2022, Institute of Philosophy of the Czech Academy of Sciences [peer-reviewed]
- September 2022 **Quantificational issues in Prawitzian validity**
Logic Algebra and Truth Degrees Conference, University of Salerno [peer-reviewed]
- July 2022 **Preuves et définitions absolues chez Gödel : une carte** - with F. Carbo-Gil
IX SoPhA congress, University of Neuchâtel [peer-reviewed]
- June 2022 **The proof-theoretic square**
Carl Friedrich von Weizsäcker Colloquium, University of Tübingen [invited]
- June 2022 **Schematic Prawitzian validity and Prawitz's conjecture**
5th SILFS Postgraduate conference on logic and philosophy of science, University of Milano Bicocca [peer-reviewed]
- February 2022 **An introduction to Prawitz's semantics**
CIRM Research School "Logic and transdisciplinarity", University of Aix-Marseille [invited]
- September 2021 **Epistemic grounding. Semantics and calculi based on Prawitz's theory of grounds**
Autumn School "Proof and Computation", University of Munich [invited]

- June 2021 **La controversia sulla Lehre di Semmelweis [The controversy over Semmelweis' Lehre]**
8th STS Italia conference, University of Trieste [peer-reviewed]
- May 2021 **Kreisel's informal rigour and Gödel's absolute provability. A tentative reading through and for Prawitz's semantics**
Carl Friedrich von Weizsäcker-Colloquium, University of Tübingen [invited]
- November 2020 **Informal and absolute provability: from Kreisel and Gödel to Prawitz and Girard – with D. Catta**
12th French PhilMat Workshop, University of Lorraine (Nancy) [peer-reviewed]
- August 2020 **Informal and absolute provability: from Kreisel and Gödel to Prawitz and Girard – with D. Catta**
Tenth European Conference of Analytic Philosophy, University of Utrecht [peer-reviewed]
- August 2019 **A class of languages for Prawitz's epistemic grounding**
16th International Congress of Logic, Methodology and Philosophy of Science and Technology, University of Prague [peer-reviewed]
- May/June 2018 **Game of grounds – with D. Catta**
PhilMatMED "Philosophie, histoire et didactique des mathématiques en Méditerranée: logique, langages, preuves", University of Montpellier [invited]
- May 2018 **Grounds in Ludics – with D. Catta**
FilMat Workshop 2018, University of Palermo [peer-reviewed]
- August 2017 **Even Dag Prawitz turned to grounds. But why?**
Ninth European Conference of Analytic Philosophy, University of Munich [peer-reviewed]
- November 2016 **A case of BHK-decidability. Dag Prawitz's proof- and ground-theoretic semantics**
Eighth French Philosophy of Mathematics Workshop, University of Aix-Marseille [peer-reviewed]
- May 2016 **Riconoscibilità nelle semantiche di Dag Prawitz [Recognisability in Prawitz's semantics]**
AISC Mid-Term 2016 Conference, "Federico II" University of Naples [peer-reviewed]
- March 2016 **Recognition procedures and Dag Prawitz's theory of grounds**
Second GWP Conference "Philosophy of Science between the Natural Sciences, the Social Sciences and the Humanities", University of Düsseldorf [peer-reviewed]

- January 2016 **Recognition procedures and Dag Prawitz's theory of grounds**
How to say "yes" and "no". Logical approaches to modes of assertion and denial, University of Salento [peer-reviewed]
- June 2015 **Evidence and proofs in Dag Prawitz's theory of grounds**
SoPhA Congress, Montreal [peer-reviewed]
- April 2015 **From proofs to grounds. Topics in latest Dag Prawitz's semantics**
Second Belgrade Graduate Conference in Philosophy and Logic, University of Belgrade [peer-reviewed]
- August/September 2014 **Dag Prawitz's theory of grounds: inferences and logical consequence**
Eight European Conference of Analytic Philosophy, University of Bucharest [peer-reviewed]
- July 2014 **Dag Prawitz's theory of grounds: inferences and logical consequence**
Logic colloquium, University of Tübingen [invited]

Guest editing and organisation of workshops

- 2023 Co-organiser of the CIVIS-project **Meanings and understanding via proofs. Logical and epistemological approaches**, consisting of a research school at the University of Bucharest, 17 - 21 July 2023.
- Editor of **Perspectives on deduction**
 forthcoming in the *Synthese Library, Springer* [Manuscript to be reviewed]
- 2022 Co-ordinator of the CIVIS-project **Proofs, arguments and dialogues: history, epistemology and logic of justification practices**, consisting of two research schools, one in Marseille (**Logic and transdisciplinarity**, 7 - 11 February 2022, organised with the CIRM) and one in Tübingen (**Proofs, arguments and dialogues: history, epistemology and logic of justification practices**, 8 - 12 August 2022)
- 2019 Organiser of the workshop **Inferences and proofs 2** – with G. Crocco
 University of Aix-Marseille
- Editor of **Inferences and proofs, special issue of Topoi. An international review of philosophy** – with G. Crocco
- 2016 Organiser of the workshop **Inferences and proofs** – with G. Crocco
 University of Aix-Marseille

2014 Organiser of the workshop **Models and inferences in science** – with E. Ippoliti and G. Miotti
“Sapienza” University of Rome

Reviewer activity

Journals Bulletin of the section of logic
Inquiry. An interdisciplinary journal of philosophy
Journal of applied non-classical logics
Studia Logica
Theoria (Sweden)
Topoi. An international review of philosophy

Series Outstanding contributions to logic (Springer)
Synthese Library (Springer)

Language skills

Native Italian

Non-native English
French

Qualifications

Qualified for teaching as *professore di II fascia* (associate professor) in Italian universities in section 11/C2, which in turn includes sections M-FIL/02 (Logic and philosophy of science) and M-STO/05 (History of sciences and techniques)

Qualified for teaching as *maître de conférences* (associate professor) in French universities in sections 17 (Philosophy) and 72 (Philosophy and history of science and technology)

Other affiliations

Associazione Italiana di Logica e Applicazioni (AILA)

European Society for the Philosophy of Mathematics (ESPM)

Groupe de Recherche “Philosophie des Mathématiques” (GDR PhilMat)

The Proof Society

Société de Philosophie Analytique (SoPhA)

Società Italiana di Logica e Filosofia delle Scienze (SILFS)

Società Italiana di Studi sulla Scienza e la Tecnologia (STS Italia)