

Sara Ayhan

Curriculum Vitae

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Education

- 2018 - 2023 **PhD in Philosophy**, Ruhr University Bochum
Thesis: *Meaning and identity of proofs in (bilateralist) proof-theoretic semantics*,
Grade: *summa cum laude*
Supervisors: Prof. Dr. Heinrich Wansing, Prof. Dr. Greg Restall
- 2015 - 2018 **M.A. Philosophy (single major)**, Ruhr University Bochum, (2-year program)
Thesis: *Proof-theoretic semantics and paradoxes*, Award for best Master's
thesis of the faculty
Supervisor: Prof. Dr. Heinrich Wansing
- 2014 **Semester Abroad**, University of Adelaide, Australia
- 2010 - 2015 **First State Exam** Philosophy, English & History, University of Siegen
(5-year program)
Thesis: *Donald Davidson's Conception of Truth*
Supervisor: Prof. Dr. Richard Schantz
- 2010 **Abitur**, Städtisches Gymnasium Selm

Employment

- Since May 2023 **Post-Doc**, ConLog-ERC Advanced Grant Project: *Contradictory Logics - A Radical Challenge to Logical Orthodoxy*, Ruhr University Bochum
(Prof. Dr. Heinrich Wansing)
- 2018 - 2023 **Research Assistant**, Institute for Philosophy I - Logic and Epistemology, Ruhr University Bochum
(Prof. Dr. Heinrich Wansing)
- 2013 - 2015 **Student Assistant**, Chair of History of Philosophy & Philosophy of Language, University of Siegen
(Prof. Dr. Richard Schantz)

Publications

Ayhan, S. (forthcoming). What are acceptable reductions? Perspectives from proof-theoretic semantics and type theory. *Australasian Journal of Logic*.

Ayhan, S. & Wansing, H. (2023). On synonymy in proof-theoretic semantics.

The case of 2Int. *Bulletin of the Section of Logic*.

<https://czasopisma.uni.lodz.pl/bulletin/article/view/14910/18176>.

Ayhan, S. (2021). What is the Meaning of Proofs? A Fregean Distinction in Proof-Theoretic Semantics. *Journal of Philosophical Logic* 50, 571–591.

<http://link.springer.com/article/10.1007/s10992-020-09577-2>.

Ayhan, S. (2021). Uniqueness of Logical Connectives in a Bilateralist Setting. In *The Logica Yearbook 2020* ed. by Igor Sedlár & Martin Blichá, pp. 1–16, College Publications.

Ayhan, S. (2020). A cut-free sequent calculus for the bi-intuitionistic logic 2Int. Unpublished Manuscript, <https://arxiv.org/abs/2009.14787>.

Teaching

As Principal Instructor (WS = Winter Semester, SS = Summer Semester)

Logical Techniques, (co-teaching with Dr. Daniel Skurt), WS 2023/24, Ruhr University Bochum, (Introduction to different kinds of proof systems)

Logical Argumentation and Manipulation, SS 2019, SS 2020, SS 2021 & WS 2022/23, Ruhr University Bochum, (Seminar on critical thinking)

Introduction to General Proof Theory, WS 2021/22, Ruhr University Bochum

Formal Methods in Philosophy, WS 2020/21 & SS 2022, Ruhr University Bochum

Classical Texts in Philosophy of Language, SS 2020 & WS 2020/21, Ruhr University Bochum

Introduction to Analytical Philosophy, (co-teaching with Dr. Christopher Badura), SS 2020, Ruhr University Bochum

Introduction to the Philosophy of Logic, SS 2019, Ruhr University Bochum

Paradoxes, WS 2018/19 & 2019/2020, Ruhr University Bochum

As Teaching Assistant

Logic I, WS 2016/17, WS 2018/19, WS 2019/20, WS 2021/22 & SS 2023, Ruhr University Bochum

(for Prof. Dr. Heinrich Wansing, Prof. Dr. Christian Straßer and Dr. Daniel Skurt)

Formal Logic, WS 2012/13 & WS 2013/14, University of Siegen

(for Prof Dr. Richard Schantz and Dr. Bertold Schweizer)

Talks (Selection, * for invited talks)

June 2023 *Meaning and identity of proofs in a bilateralist setting: A two-sorted typed lambda-calculus for proofs and refutations*

Logica 2023

(Department of Logic, Academy of Sciences of the Czech Republic)

Nov. 2023* *‘Bad’ reductions, paradoxes and the meaning of proofs*

- Symposium on Proof-theoretic Semantics
(University College London)
- Sept. 2022 *'Bad' reductions, paradoxes and the meaning of proofs*
Logica 2022
(Department of Logic, Academy of Sciences of the Czech Republic)
- Sept. 2022 *Why Ekman-reduction is no reduction (and therefore Ekman's paradox is no paradox)*
PhDs in Logic XIII
(University of Turin)
- Aug. 2022* *Meaning and identity of proofs in a bilateralist setting: A two-sorted typed lambda-calculus for $2Int$*
11th Workshop on Philosophical Logic - Buenos Aires Logic Group
(Argentinean Society of Philosophical Analysis (SADAF), University of Buenos Aires)
- Jan. 2022* *On the distinctions between sense vs. denotation and identity vs. synonymy of proofs*
Celebrating the World Logic Day - 2022: The meaning of proofs
(Online, University College London)
- Jan. 2022* *Bilateralism, logical consequence, and uniqueness of logical connectives*
Explanatory Inference Seminar
(Institut supérieur de philosophie, UCLouvain)
- Nov. 2021 *Bilateralism, logical consequence, and uniqueness of logical connectives*
25th Oxford Graduate Philosophy Conference
(University of Oxford)
- Oct. 2021* *Reduction procedures and the meaning of proofs*
Seminar on Applied Mathematical Logic
(Department of Logic, Czech Academy of Sciences, Prague)
- Oct. 2021* *Reduction procedures and the meaning of proofs*
The Logic Supergroup - Early Career Researcher Workshop, Online
- Aug. 2021* *Bilateralism, logical consequence, and uniqueness of logical connectives*
10th Workshop on Philosophical Logic - Buenos Aires Logic Group
(Online, University of Buenos Aires)
- June 2021 *What are good reduction procedures? Perspectives from proof-theoretic semantics and type theory*
Australasian Association for Logic conference (AAL 2021)
(Online, University of Queensland & University of Melbourne)
- Jan. 2020 *What is the meaning of proofs? A Fregean distinction in proof-theoretic semantics*
Thirteenth Annual Cambridge Graduate Conference on the Philosophy of Mathematics and Logic, Graduate Conference
(St John's College, Cambridge)
- Dec. 2019* *Uniqueness of logical connectives in a bilateralist setting*

- Paris-Bochum-Moscow Workshop in Mathematical Philosophy
(ENS, Paris)
- April 2019 *The meaning of proofs in different proof systems*
PhDs in Logic XI, Graduate Conference
(Institut für Exakte Wissenschaften, University of Bern)
- March 2019 *The meaning of proofs in different proof systems*
Proof-Theoretic Semantics: Assessment and Future Perspectives,
Third Tübingen Conference on Proof-Theoretic Semantics
(Eberhard Karls University Tübingen)
- May 2018 *Proof-theoretic semantics and paradoxes: Distinguishing non-standard phenomena in sequent calculus*
PhDs in Logic X, Graduate Conference
(Institute of Philosophy of the Czech Academy of Sciences, Prague)

--- Editing, Reviewing and Organizational Tasks

- 2023 **Guest Editor of Special Issue of the *Bulletin of the Section of Logic: Bilateralism and Proof-Theoretic Semantics***
- 2023 **Co-Organizer of the conference: 1st Workshop on Contradictory Logics**, December 2023, Bochum
- 2023 **Organizer of advanced training workshop for the philosophy staff: Dealing with structural injustice in university teaching**, November 2023, Bochum
- 2022 **Organizer of the conference: *Bilateralism and Proof-Theoretic Semantics***, March 2022, Bochum
- 2020-2021 **Co-organizer of the graduate conference: *PhDs in Logic XII***, (postponed from 2020 due to the pandemics) September 2021, Berlin
- Since 2020 **Reviewing for journals**
Journal of Philosophical Logic
Review of Symbolic Logic
Analysis
Bulletin of the Section of Logic
Australasian Journal of Logic
Minds and Machines
- Since 2018 **Reviewer for RUB Research School PLUS**, Ruhr University Bochum
Reviewing applications for the funding programmes of the RUB graduate school

--- Commitments in the Academic Self-Administration

- Since 2023 Spokesperson of the Philosophy ‘Mittelbau’ (PhDs and Post-Docs) at Ruhr University Bochum
Organizing meetings to discuss issues in teaching between Mittelbau and students/professors;
Generally moderating the communication between the Mittelbau and professors, students & administration

- Since 2023 Member of the *University Committee for Diversity*, Ruhr University Bochum
- Since 2019 Member of *MAP-Bochum (Minorities and Philosophy)*
- 2018 - 2023 PhD Representative in several committees of the Philosophy Institutes at Ruhr University Bochum
- 2015 - 2018 Student Representative of the Philosophy Students at Ruhr University Bochum

Grants

- 2023 RUB Research School Grant for a 5-week research stay at Monash University, Melbourne, hosted by David Ripley
- 2022 RUB Research School Grant for organizing the conference “Bilateralism and Proof-Theoretic Semantics”

Miscellaneous

- Member of the *Logicians' Liberation League*
- Co-founder of the *Proof-Theoretic Semantics Network*