

EMPLOYMENT

School of Mathematics, University of Leeds MSCA Postdoctoral Fellowship funded by the UKRI Guarantee fund. Advisor: H. Dugald Macpherson	Leeds (UK) October 2023 –September 2025
Mathematisches Institut der Universität Bonn Post-doctoral position (Wissenschaftlicher Mitarbeiter), Advisor: Philipp Hieronymi	Bonn (Germany) July 2022–September 2023
Fields Institute for Research in Mathematical Sciences Fields Post-Doctoral Fellowship during two thematic research programs.	Toronto (Canada) July 2021–June 2022
Hebrew University of Jerusalem, Einstein Institut of Mathematics Post-doctoral position with an additional Schonbrunn Fellowship (2019 - 2020) and a Golda Meir Fellowship (2020 - 2021). Advisor: Itay Kaplan	Jerusalem October 2019–June 2021

EDUCATION

University Lyon 1, Institut Camille Jordan PhD, in Lyon (ICJ) part-time hosted in Paris (ENS); Advisors: Thomas Blossier (ICJ), Zoé Chatzidakis (ENS)	Lyon (France) October 2015–20th June 2019
– Thesis: “Expansions and neostability in model theory”. This thesis is concerned with the expansions of some algebraic structures and their place in Shelah’s classification landscape. Keywords : Generic expansions; fields with generic subgroups; NSOP ₁ theories; forking; Kim forking; p -adic valuations on integers; finite dp-rank.	
University Paris Diderot Master’s degree in Mathematical Logic and Foundation of Computer Science	Paris (France) 2014–2015
– Thesis: “Model-theory of fields: the independence property” (Advisor: Zoé Chatzidakis)	
Agrégation externe de Mathématiques A French national degree in mathematics and teaching	2014
University of Bordeaux Master’s degree in General Mathematics	Bordeaux (France) 2013–2014
– Thesis: “The field of quaternions” (Advisor: Jean-François Jaulent)	
Manchester University Master’s degree Mathematics and Logic	Manchester (UK) 2012–2013
– Thesis: “On the complete ordered field” (Advisor: Alex Wilkie)	
University of Bordeaux Bachelor in Mathematics	Bordeaux (France) 2009–2012
– Thesis: “Ruler and Compass Constructions” (Advisor: Pierre Parent)	

PUBLICATIONS

- (a) E. Alouf and C. d’Elbée, “A new dp-minimal expansion of the integers”, *The Journal of Symbolic Logic*, vol. 84, no. 2, pp. 632–663, 2019
- (b) C. d’Elbée, “Generic expansions by a reduct”, *Journal of Mathematical Logic*, vol. 21, no. 03, p. 2150016, 2021
- (c) C. d’Elbée, “Forking, imaginaries and other features of ACFG”, *The Journal of Symbolic Logic*, pp. 1–34, 2021
- (d) C. d’Elbée, “Generic expansion of an abelian variety by a subgroup”, *Mathematical Logic Quarterly*, vol. 67, no. 4, pp. 402–408, 2021

- (e) C. d’Elbée and Y. Halevi, “Dp-minimal integral domains”, *Israel Journal of Mathematics*, vol. 246, no. 1, pp. 487–510, 2021
- (f) C. d’Elbée, *Cyclic and non-cyclic division algebras of finite dp-rank*, 2021. arXiv: 2106.09767 [math.RA]
- (g) C. d’Elbée, I. Kaplan, and L. Neuhauser, *On algebraically closed fields with a distinguished subfield*, 2021. arXiv: 2108.04160 [math.LO]
To appear in *Israel Journal of Mathematics*.
- (h) C. d’Elbée, I. Kaplan, and L. Neuhauser, *Existentially closed models of fields with a distinguished submodule*, 2021. arXiv: 2110.02361 [math.LO]
To appear in *Journal of Symbolic Logic*.
- (i) G. Conant, C. d’Elbée, Y. Halevi, L. Jimenez, and S. Rideau-Kikuchi, *Enriching a predicate and tame expansions of the integers*, 2022. arXiv: 2203.07226 [math.LO]
To appear in *Journal of Mathematical Logic*.
- (j) A. Berenstein, C. d’Elbée, and E. Vassiliev, *Vector spaces with a dense-codense generic submodule*, 2022. arXiv: 2204.10758 [math.LO]
Submitted to *Annals of Pure and Applied Logic*.
- (k) C. d’Elbée, *Generic multiplicative endomorphism of a field*, 2022. arXiv: 2212.02115 [math.LO]
Submitted to *Annals of Pure and Applied Logic*.
- (l) C. d’Elbée, I. Müller, N. Ramsey, and D. Siniora, *Model-theoretic properties of nilpotent groups and lie algebras*, 2023. arXiv: 2310.17595 [math.LO]
Submitted to *Journal of Algebra*.

GRANTS

Algeria Research Hub fellowship

June 2024

with I. Müller, N. Ramsey and D. Siniora.

A one-week research stay at the National Higher School of Mathematics in Algeria, funded by the U.S. State department for a partnership between the Pulte Institute (University of Notre Dame, Notre Dame, IN, US) and Algeria’s Ministry of Higher Education (MOHE).

Research in Paris (IHP) Program

July 2023

with I. Müller, N. Ramsey and D. Siniora.

A two-weeks research stay at the Institute Henry Poincaré, for a Research in Paris grant for the proposal “Generic Nilpotent Groups”.

Marie Skłodowska Curie Actions Postdoctoral Fellowship

February 2023

MSCA European Postdoctoral Fellowship, Funded by the UKRI Guarantee Fund

Project 101107014 — WILDMOD “Model Theory of wild mathematical structure, new perspectives via geometries and positive logic”, with a score of 95,8%. Duration: 2 years. Amount: 220,908.48€.

Fields Postdoctoral Fellowship (FPDF)

2021

Postdoctoral Fellowship from the Fields Institute for Research in Mathematics Sciences, Toronto.

Duration: One year. Amount: 60000CAD.

Schonbrunn Postdoctoral fellowship

2019 - 2020

Fellowship supporting my postdoc at the Hebrew University

Golda Meir Postdoctoral fellowship

2020 - 2021

Fellowship supporting my postdoc at the Hebrew University

ECOS-Nord Funding Program

April 2019

Funding for a one month research stay at the Universidad de los Andes, Bogota.

VISITS

Universidad Complutense de Madrid. Invited by Profs. D. Palacin and E. Baro.	Spain. February 19th, 2024 – February 23th, 2024
University of the Basque Country (UPV/EHU), Bilbao. Invited by Profs. M. Casals and I. Kazachov	Spain. February 12th, 2024 – February 16th, 2024
Ohio State University, Columbus. Invited by Prof. G. Conant.	U.S. January 28th, 2024 – February 3rd, 2024
University of Notre Dame, South Bend, Indiana. Invited by Prof. N. Ramsey	U.S. January 16th, 2024 – January 26th, 2024
Ohio State University, Columbus. Invited by Prof. G. Conant and Prof C. Terry.	U.S. May 15th, 2022 – May 21st, 2022
Universidad de los Andes, Bogotá. Visit supported by the French public international collaboration fellowship: ECOS Nord program 048-2019.	Colombia April 21st, 2019 – May 19th, 2019

TALKS

• Peking University Model Theory Seminar <i>(Online Talk) Model Theory of nilpotent Lie algebras (Invited Seminar talk).</i>	29/04/2024
• Lancashire Yorkshire Model Theory Seminar (LYMoTS) <i>On Wilson conjecture for Lie algebras (Invited Seminar talk).</i>	15/04/2024
• Logic Seminar, Oxford University <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	29/02/2024
• London Logic Seminar, Imperial College of London <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	28/02/2024
• Algebra, Geometry and Topology Seminar, University Complutense of Madrid <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	21/02/2024
• Algebra Seminar, University of the Basque Country, UPV/EHU, Bilbao (Spain) <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	14/02/2024
• Logic Seminar, Ohio State University, Columbus (US) <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	30/01/2024
• Logic Seminar, University of Notre Dame, South Bend (US) <i>Omega-categorical groups and Lie algebras (Invited seminar talk).</i>	23/01/2024
• Leeds Logic Seminar <i>Omega-categorical groups and Lie algebras (Local seminar talk).</i>	13/12/2023
• Mini-Course in Leeds <i>Mini-course on amalgamation of Lie algebras (Local lecture).</i>	04/12/2023-05/12/2023
• Manchester Logic Seminar <i>Model theory of nilpotent groups and Lie algebras (Invited seminar talk).</i>	29/11/2023
• Geomod Final Conference <i>Model theory of nilpotent groups and Lie algebras (Invited conference talk).</i>	16/11/2023
• Model and Sets Seminar <i>Model theory of nilpotent groups and Lie algebras (Local seminar talk).</i>	25/10/2023
• BCAM-Severo Ochoa Courses: Model Theory in Bilbao <i>Lecture on the Ax-Kochen-Ershov theorem (Invited Lecturer).</i>	18/09/2023 – 22/09/2023
• Chinese Academie of Science seminar <i>(Online Talk) Generic multiplicative endomorphism of a field (Invited seminar talk).</i>	28/05/2023
• Helsinki Logic Seminar <i>(Online Talk) Generic multiplicative endomorphism of a field (Invited seminar talk).</i>	01/02/2023

- **Oberwolfach Workshop ID 2302** January 2023
Generic multiplicative endomorphism of a field (Oberwolfach Workshop talk). A video is available via this link or on my website.
- **Séminaire de Logique, Institut Camille Jordan, Lyon** December 2022
Generic multiplicative endomorphism of a field (Invited seminar talk).
- **Logic seminar, Hebrew University of Jerusalem** November 2022
Generic multiplicative endomorphism of a field (Invited seminar talk).
- **Logic Oberseminar, Mathematical Institut, Bonn** October 2022
Generic multiplicative endomorphism of a field (Invited seminar talk).
- **Logic Seminar, Ohio State University** May 2022
Generic multiplicative endomorphism of a field (Invited seminar talk).
- **Fields Postdoc Colloquium, Fields Institute** November 2021
Dp-minimal expansions of the group of integers: a survey (Invited seminar talk).
- **Workshop on Trends in Pure and Applied Model Theory, Fields Institute** July 2021
(Online Talk) Dp-minimal integral domains (Invited conference talk).
- **Logic seminar, Imperial College London** May 2021
(Online Talk) Dp-minimal integral domains (Invited seminar talk).
- **Logic seminar, Università degli Studi della Campania** May 2021
(Online Talk) Dp-minimal integral domains (Invited seminar talk).
- **Topological and Differential Expansions of O-minimal Structures, Universidad de los Andes/Universität Konstanz/Università di Pisa** December 2020
(Online Talk) Generic expansion by a reduct (Invited conference talk).
- **Séminaire Théorie des Modèles Paris-Lyon, Université Paris Diderot/Université de Lyon** December 2020
(Online Talk) Dp-minimal integral domains (Invited seminar talk).
- **Logic seminar, Hebrew University of Jerusalem** November 2020
(Online Talk) Dp-minimal integral domains (Invited seminar talk).
- **Notre Dame Logic Seminar, South Bend, Indiana** October 2020
(Online Talk) Dp-minimal integral domains (Invited seminar talk).
- **British Postgraduate Model Theory Conference, Leeds** January 2020
Neostability and independence relations (Invited conference talk).
- **Logic seminar Hebrew University of Jerusalem** October 2019
Generic Abelian Varieties (Invited seminar talk).
- **Seminarios de Lógica, Universidad de los Andes, Bogotá** April 2019
Expansions of the group of integers (Invited seminar talk).
- **Séminaire des doctorants et doctorantes, Institut Camille Jordan, Université Lyon 1** March 2019
Model theory and independence relations (Invited seminar talk).
- **Séminaire Théorie des Modèles et Groupes Institut Mathématique de Jussieu, Université Paris-Diderot** December 2018
Generic additive subgroup of an algebraically closed field of positive characteristic (Invited seminar talk).
- **Neostability theory, BIRS 18w5193, Casa matematica, Oaxaca (Mexico)** October 2018
Generic additive subgroup of an algebraically closed field of positive characteristic. Generic expansion by a reduct (Invited conference talk).
- **Séminaire des Doctorants et Doctorantes, Institut Camille Jordan, Université Lyon 1** November 2017
Hilbert 17th problem: a model theoretic proof (Invited seminar talk).
- **Séminaire de Théorie des Modèles Institut Camille Jordan, Université Lyon 1** October 2017
Generic additive subgroup of an algebraically closed field of positive characteristic (Invited seminar talk).
- **Séminaire Théorie des Modèles et Groupes, Institut Mathématique de Jussieu, Université Paris-Diderot** February 2017
Minimal expansions of the group of integers (Invited seminar talk).
- **Séminaire Théorie des Modèles, Institut Camille Jordan, Université Lyon 1** February 2017
Minimal expansions of the group of integers (Invited seminar talk).
- **British PostGraduate Model Theory Conference, Leeds** January 2017
Minimal expansions of the group of integers (Invited conference talk).

- **Colloquium Inter'Action, Université Lyon 1**

May 2016

Ax's proof of a theorem of Grothendieck (Invited conference talk)

- **Journée des doctorants et doctorantes, Université Lyon 1**

April 2016

Algebra and model theory (Invited seminar talk).

CONFERENCES ATTENDED

- Geomod Network Final Conference (ANR-DFG)
Freiburg-em-Brisgau, Germany, 13/11/23–17/11/2023
- Model theory and groups
Münster, Germany, 25/09/23–29/09/2023
- Oberwolfach Workshop ID 2302
Oberwolfach, Germany, 08/01/23–14/01/2023
- Model Theory and applications 2022
Cetraro, Italy, 06/20/22–06/25/2022
- Interactions Between O-minimal, Complex Analytic
and Nonarchimedean Methods
Fields Institute, Toronto, 06/06/2022–06/10/2022
- From Geometric Stability Theory to Tame Geometry,
In honor of Ehud Hrushovski's 60th birthday
Fields Institute, Toronto, 12/13/2021–12/17/2021
- Workshop on Trends in Pure and Applied MT
Fields Institute, Toronto, 07/26/21–07/30/2021
- British Postgraduate Model Theory Conference
Leeds, 01/08/2020–01/10/2020
- From permutation groups to model theory
ICMS, Edinburgh, 09/17/2018–09/21/2018
- Workshop Model Theory of Valued Fields
IHP Paris, 03/05/2018 –03/09/2018
- Model Theory, Combinatorics and Valued Fields
CIRM Marseille, 01/08/2018 –01/12/2018
- Model Theory in Wrocław
Wrocław (Poland), 06/30/2017 –07/02/2017
- British Postgraduate Model Theory Conference
Leeds (UK), 01/25/2017 –01/27/2017
- BN - pair
Istanbul (Turkey), 10/19/2016 –10/23/2016
- Model theory Month,
Muenster, 04/18/2016 –05/20/2016
- Combinatorial Problems in
Model Theory and Computer Science
Leeds, UK, 6/11/23–8/11/2023
- Model Theory in Bilbao, BCAM
Bilbao, Spain, 11/09/23–22/09/2023
- Neostability, BIRS 23w5145
Banff International Research Station (Canada),
19/02/2023 –24/02/2023.
- Model Theory Conference, Newelski 60th Birthday
Bedlewo, Poland, 16/12/22–22/12/2022
- Practical and Structural Model Theory
Leeds, 07/25/22–07/30/2022
- Introductory Workshop on Tame Geometry,
Transseries and Applications to Analysis and Geometry
Fields Institute, Toronto, 01/10/2022–01/14/2022
- Workshop on Model Theory and Combinatorics
Fields Institute, Toronto, 11/29/2021–12/3/2021
- Problems Allied to MT and Universal Algebra (Online)
Erlagol (Russia), 05/23/21–29/05/2021
- Neostability, BIRS 18w5193
Casa matematica Oaxaca (Mexico), 10/14/2018 –10/19/2018.
- Model Theory and Applications
IHP Paris, 03/26/2018 –03/30/2018
- Workshop Model Theory and Combinatorics
IHP Paris, 01/29/2018 –02/02/2018
- Model Theory
Bedlewo (Poland), 07/03/2017 –07/07/2017
- Automorphism Groups, Differential Galois Theory
Barcelone, 06/26/2017 –06/27/2017
- Conférence Théorie des Modèles et Applications
Mons (Belgium), 01/16/2017 –01/19/2017
- Colloque en l'honneur de Françoise Delon
IMJ, Paris, 06/02/2016 –06/03/2016

RESEARCH ACTIVITIES AND OUTREACH

GeSAMT: Bonn-Münster-Düsseldorf bi-yearly seminar

Mathematisches Institut, Bonn
Co-organiser with Prof. Hieronymi.

January 28th, 2023

Oberseminar

Mathematisches Institut, Bonn
Co-organiser with Prof. Hieronymi
Weekly seminar.

July 2022 – Now

Fields Model Theory Seminar

Fields Institute, Toronto

Co-organiser with Esther Elbaz and Alexi Block-Gorman

Weekly seminar during the Thematic Program on Trends in Pure and Applied Model Theory, and the Thematic Program on Tame Geometry, Transseries and Applications to Analysis and Geometry

July 2021 – June 2022

Journée des Jeunes Chercheur-e-s

ICJ Lyon

Co-organiser, with Ariane Carrance.

A one-day conference for young researchers in Lyon.

Nov. 28th, 2016

Math@Lyon

ICJ Lyon

Outreach activities for “Fête de la science”, with school students.

Oct. 11th, 2018 – Oct. 12th, 2018

Peer Reviewing

I am referee for the *Annals of Pure and Applied Logic* and *Journal of Symbolic Logic*.

STUDENT SUPERVISION

Mathematisches Institut

Post-doctoral position

- PhD thesis co-advisor

With Philipp Hieronymi, supervision of the PhD thesis of Leon Chini. Keywords of the thesis: Model theory of expansions of a real-closed field by generic multiplicative map. Distal expansions of the natural numbers with a successor function.

University of Bonn

October 2022–Now

Hebrew University

Post-doctoral position

- Master’s thesis advisor

With Itay Kaplan, supervision of the master’s thesis of Leor Neuhauser. Keywords of the thesis: Positive logic and generic expansions of fields with subgroups. NSOP₁ in the positive logic sense. NSOP₁ expansions of theories of fields.

Jerusalem

October 2019–October 2021

TEACHING

Mathematisches Institut

Teaching Assistant

- (Winter term) Adv Math Logic II: Tame Geometry
Exercise Sessions for an MSc course.

- (Summer term) Adv. Topics in Math. Logic - Neostability and Independence relations
Lecturer for an MSc course.

University of Bonn

October 2022–Now

University Lyon 1

Teaching Assistant (ATER), 98hrs. Bachelor level.

Lyon (France)

October 2018–June 2019

University Lyon 1

Ph.D. 180hrs. Bachelor level.

Lyon (France)

October 2015–June 2018

COMPUTER SCIENCE ABILITIES

- **Mathematical Calculus** : sage-math, matlab, scilab, maple.
- **General** : python, C, html.
- **Computer music** : LogicPro.

LANGUAGES

- **French** : Native speaker.
- **English** : Fluent.
- **Spanish** : Fluent.
- **Basque** : Written and spoken.
- **Arabic** : Beginner.