

Najib Idrissi – Curriculum Vitæ

Academic career

Since Sept. 2018	Maître de conférences , Université Paris Cité & Institut de Mathématiques de Jussieu–Paris Rive Gauche (IMJ-PRG) Position started at Université Paris Diderot (Paris 7), which merged in 2020 with Université Paris Descartes. Received the “Habilitation à Diriger des Recherches” (HDR) on May 22nd, 2025.
Feb. 2018 – Aug. 2018	Postdoctoral researcher , ETH Zürich Group of Thomas Willwacher. Funded by ERC StG 678156–GRAPHCPX.
Sept. 2015 – Jan. 2018	Doctorate in Mathematics , Université de Lille & Laboratoire Paul Painlevé Advisor: Benoit Fresse. Thesis defended on November 17th, 2017.
2011–2015	Élève de l'ENS , École Normale Supérieure de Paris 2013–2014: Master's degree in Fundamental Mathematics, Université Paris Diderot

Awards

2025–2030	Institut Universitaire de France (IUF) , Junior Chairholder The IUF rewards each year a number of young professors or lecturers, aged 40 or less at the time of their appointment, who are of exceptional quality and who are in a creative phase during which they need to be partially relieved of their teaching and certain administrative obligations.
2021–2025	Research and Doctoral Supervision Award (PEDR) , Université Paris Cité
2020	Peccot Lecture , Collège de France & Fondation Claude-Antoine Peccot Since 1885, thanks to an endowment from the family of mathematician Claude-Antoine Peccot, the Collège de France has awarded annual prizes to young mathematicians under the age of 30 who have distinguished themselves in theoretical or applied mathematics.

Research

Keywords: Topology, Algebra; Homotopy theory, Operads, Configuration Spaces, Homological stability, Factorization Homology, Graph Complexes.

Publications

- [1] Ricardo Campos, [N. I.](#), Pascal Lambrechts, and Thomas Willwacher. “Configuration Spaces of Manifolds with Boundary.” In: *Astérisque* 449. Soc. Math. Fr., 2024. ISBN: 978-2-85629-990-6. [DOI:10.24033/ast.1222](#). [arXiv:1802.00716](#). [hal-01721634](#)
- [2] [N. I.](#) and Eugene Rabinovich. “Homotopy Prefactorization Algebras.” In: *Res. Math. Sci.* 11.45 (2024). [DOI:10.1007/s40687-024-00456-9](#). [arXiv:2304.13011](#). [hal-04082483](#).
- [3] [N. I.](#) and Renato Vasconcellos Vieira. “Non-formality of Voronov’s Swiss-Cheese operads.” In: *Q. J. Math.* 75.1 (2024), pp. 63–95. [DOI:10.1093/qmath/haad041](#). [arXiv:2303.16979](#). [hal-04053257](#)
- [4] [N. I.](#) *Real Homotopy of Configuration Spaces. Peccot Lecture, Collège de France, March & May 2020*. Lectures Notes in Mathematics. Cham: Springer, 2022. 187 pp. ISBN: 978-3-031-04427-4. [DOI:10.1007/978-3-031-04428-1](#). [hal-03821309](#)
- [5] [N. I.](#) “Curved Koszul duality of algebras over unital versions of binary operads.” In: *J. Pure Appl. Algebra* 227.3 (2022). ISSN: 0022-4049. [DOI:10.1016/j.jpaa.2022.107208](#). [arXiv:1805.01853](#). [hal-01786218](#).
- [6] Ricardo Campos, Julien Ducoulombier, and [N. I.](#) “Boardman–Vogt resolutions and bar/cobar constructions of (co)operadic (co)bimodules.” In: *High. Struct.* 5.1 (2021), pp. 293–366. [DOI:10.21136/HS.2021.09](#). [arXiv:1911.09474](#). [hal-01786218](#).
- [7] [N. I.](#) “Formality of a higher-codimensional Swiss-Cheese operad.” In: *Algebr. Geom. Topol.* 22.1 (2020), pp. 55–111. [DOI:10.2140/agt.2022.22.55](#). [arXiv:1809.07667](#). [hal-01878406](#).
- [8] [N. I.](#) “The Lambrechts–Stanley Model of Configuration Spaces.” In: *Invent. Math.* 216.1 (2019), pp. 1–68. ISSN: 1432-1297. [DOI:10.1007/s00222-018-0842-9](#). [arXiv:1608.08054](#). [hal-01438861](#).
- [9] [N. I.](#) “Swiss-Cheese operad and Drinfeld center.” In: *Israel J. Math.* 221.2 (2017), pp. 941–972. [DOI:10.1007/s11856-017-1579-7](#). [arXiv:1507.06844](#). [hal-01438863](#).
- [10] [N. I.](#) “Opérades et Structures Commutatives à Homotopie Près.” In: *Grad. J. Math.* 1.1 (2016), pp. 9–17. ISSN: 1737-0299. [hal-03997161](#).

Preprints

- [11] N.I. and Erik Lindell. “Plethysm for characters of relative operads and PROPs.” 2025 (v1), 32 p. [arXiv:2505.05910](https://arxiv.org/abs/2505.05910). [hal-05061606](https://hal.science/hal-05061606).
- [12] Ricardo Campos, Julien Ducoulombier, N.I., and Thomas Willwacher. “A model for framed configuration spaces of points.” 2025 (v2), 47 p. [arXiv:1807.08319](https://arxiv.org/abs/1807.08319). [hal-03835341](https://hal.science/hal-03835341).
- [13] Ricardo Campos, N.I., and Thomas Willwacher. “Configuration Spaces of Surfaces.” 2020 (v2), 50 p. [arXiv:1911.12281](https://arxiv.org/abs/1911.12281). [hal-02423726](https://hal.science/hal-02423726).

Other documents

- [14] N.I. *Structure of configuration spaces*. Habilitation à Diriger des Recherches. Université Paris Cité, May 22nd, 2025. 86 pp. <https://hal.science/tel-05082275>
- [15] N.I. *Formalité opéradique et homotopie des espaces de configuration*. PhD thesis. Université Lille 1, Nov. 17th, 2017. 173 pp. <https://hal.science/tel-01731389>
- [16] N.I. *Homologie et complexes de déformations d'opérades E_n* . Master's thesis. Université Paris 7, 2014.

Funding

Principal Investigator

- 2025–2030 Funding attached to the **IUF chair**, 75 k€ over five years
- 2022–2027 **“Structure and Homotopy of Configuration Spaces” (SHoCoS)**, Agence Nationale de la Recherche (ANR), Young Researcher (JCJC) Project
Identifier: ANR-22-CE40-0008. Budget: 214 k€ over five years. More information: <https://idrissi.eu/shocos>
- Fall 2022 **Délégation CNRS** (sabbatical), Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG)
- 2019 **PEPS Project “Young Researcher” (PEPS JCJC)**, CNRS / Insmi. Budget: 3500 € over one year.

Participant

- 2021–2025 ANR PRC project “Higher Algebra, Geometry, and Topology (HighAGT)” coordinated by Bruno Vallette.
- 2014–2015 ANR PRC project “Homotopie algébrique, Opérades et groupes de Grothendieck–Teichmüller (HOGT)” coordinated by Benoit Fresse.

Supervision

Postdocs

- 2024–2026 **Victor Roca i Lucio**, funded by ANR project SHoCoS
- 2023–2024 **Erik Lindell**, funded by the IMJ-PRG/FSMP

PhD students

- 2024–2027 **Filipp Buryak** (codir w/ M. Livernet), “Régularité des modules à droite opéradiques”.
- 2024–2027 **José São João** (codir w/ V. Dotsenko and Y. Guiraud), “Wheeled operads in algebra, topology, and numerical methods”.
- 2022–2026 **Marie-Camille Delarue** (codir w/ N. Wahl), “Stable Homology of Higman–Thompson Groups and Generalizations”.

Master's degree students

- 2023–2024 **Filipp Buryak** (codir w/ E. Lindell), “Mapping class groups, braid groups and operads”
- 2022–2023 **Mélissa Nougayrède** (codir w/ E. Wagner), “Homologie stable des groupes de difféotopie des surfaces”
- 2020–2021 **Marie-Camille Delarue**, “Homotopy of Embedding Spaces between Smooth Manifolds”

Research initiations (M1 students)

- 2023 **Filipp Buryak**, “Acyclic models”

Bachelor theses

- 2020–2021 **Yasamin Jalalian**, “Lie Algebras and the PBW theorem”

Service

2024–2029	Scientific committee , Thematic Network “Algebraic and Geometric Topology”, INSMI, CNRS
2023–2028	Deputy manager , Team-project “Algebraic & Geometric Topology”, IMJ-PRG Elected position, 5-year term. Mostly administrative duties & organization of scientific activities.
2022–2025, 2025–2028	Scientific council , Mathematics department, Université Paris Cité Elected position, 3-year terms. The council is consulted on all scientific matters relevant to the department.
Since 2021	Developer on the project ical-ufr , Université Paris Cité Web application that displays the timetables of Bachelors and Masters in a format readable by humans. I mainly take care of the part visible by users, written in JavaScript/React. https://edt.math.univ-paris-diderot.fr/
Since 2021	Guidance Counseling , Paris Graduate School of Mathematical Sciences 2023–2024, 2024–2025: Antonio Radimilahy. 2022–2023: Alex Fernandes. 2021–2022: Gylfi Þorsteinn.
Ongoing	Writing abstracts , zbMath Open, https://zbmath.org/?q=rn%3A16669

Organization

May 2023	Workshop on Homology of Configuration Spaces and Related Topics , IMJ-PRG Part of the ANR SHoCoS project. Co-organizers: A. Brochier, Y. Guiraud, C. Vespa. Admin: C. Lavollay.
Since 2022	Algebraic Topology Afternoons , IMJ-PRG & LAGA Quarterly event, 2-3 speakers, mostly early-career. Co-organizers: C. Ausoni, G. Horel, M. Livernet.
Since 2019	Reading seminars (“groupe de travail”), IMJ-PRG 2024–2025: <i>Balmer spectra</i> with Victor Roca i Lucio; 2023–2024: <i>Torelli groups</i> with Erik Lindell; 2019: <i>Homological stability</i> with Mario Gonçalves Lamas
Since 2018	Topology Seminar , IMJ-PRG
Oct. 2017	Introductory day for young researchers, Colloque 2017 du GDR Topologie Algébrique , Paris
2016–2017	PhD students’ seminar , Laboratoire Paul Painlevé, Lille

Outreach

2024, 2025	10th grade “observation internships” , Université Paris Cité Host of a group of 10th graders on an “observation internship” at the university for half a day. One group in 2024, two groups in 2025, with a lecture on graph theory each time.
2021, 2023	Fête de la science , Université Paris Cité Outreach event for the public (children and adults). 2021: host of a booth on Euler characteristics and graphs for a day. 2023: host for three groups of 12th graders for activities related to the fundamental group.

Committees

Hiring committees

2024: MCF position in “Algebra, Representations, Topology” at Université de Strasbourg / IRMA

PhD examination committees

2025: Chandan Singh (dir: Marcy Robertson), University of Melbourne; written report
2025: Coline Emprin (dir: Geoffroy Horel & Bruno Vallette), Université Sorbonne Paris Nord ; oral defense
2020: Erica Minuz (dir: M. Bökstedt), Aarhus University; written report + oral defense

Master’s memoir committees

2024: M. Fontani (dir: V. Roca i Lucio, EPFL); N. Bouberbachene (dir: Y. Harpaz, UP13); T. Grandsire (dir: S. Maillot, Montpellier)
2023: R. Szafarczyk (dir: A. Brochier, UPCité); Guang Yang (dir: Adrien Brochier, UPCité); A. Jerison (dir: D. Chataur, Amiens)
2022: A. Picot (dir: O. Randal-Williams, Cambridge)
2021: G. Bressan (dir: C. Berger, Nice)
2019: B. Coron (dir: T. Willwacher, ETH Zürich)

Exam committees

2018–2019: Exam board member for L1 MIASHS

Talks

Conferences

Oct. 2026*	International Conference on Operad Theory and Related Topics , TianYuan Math. Research Center
June 2026*	Moduli spaces and graph complexes in algebra, geometry and physics , Les Diablerets
Mar. 2024	Algebra Days in Caen 2024 , Université de Caen Normandie
Jan. 2024	Workshop Alps 2024 , Sainte-Foy-Tarentaise

Oct. 2023	Séminaire Bourbaki du vendredi , Institut Henri Poincaré
June 2022	Barcelona Conference on Higher Structures , Centre de Recerca Matemàtica (CRM)
Jan. 2022	Third workshop of the ANR project AlMaRe , IMJ-PRG
Jan. 2022	Opening workshop of the ANR project HighAGT , Institut Henri Poincaré (IHP)
Oct. 2021	Colloque 2021 du GDR Topologie Algébrique , Université de Strasbourg
June 2021	Viva Talbot , Massachusetts Institute of Technology (MIT), online
Feb. 2020	Málaga & Topology Meeting , Universidad de Málaga
Dec. 2019	Opening workshop of the OCHoTop project , École Polytechnique Fédérale de Lausanne (EPFL)
Nov. 2019	Journée de topologie , Université de Picardie Jules Verne
May 2019	Higher Homotopy Algebras in Topology , Max-Planck-Institut für Mathematik (MPIM)
Jan. 2019	Higher Structures , Centre International de Rencontres Mathématiques (CIRM)
June 2018	Derived Geometry and Higher Categorical Structures in Geometry and Physics , Fields Institute
May 2018	Graph Complexes, Configuration Spaces and Manifold Calculus , University of British Columbia
Oct. 2017	Séminaire Itinérant de Catégories , Université du Littoral – Côte d'Opale
July 2017	Young Topologists Meeting 2017 , Stockholm University & KTH
Feb. 2017	Conference for Young researchers in homotopy theory and categorical structures , Max-Planck-Institut für Mathematik (MPIM)
Oct. 2016	Conference in the honour of Saïd Zarati , Institut des Hautes Études à Tunis,
Oct. 2016	Colloque 2016 du GDR Topologie Algébrique et Applications , Université de Picardie Jules Verne

Seminars

2026	Paris Cité, Stockholm
2025	Copenhagen, Lille, Strasbourg
2024	Utrecht, Rome, ENS Paris
2023	Caen
2022	Purdue, Northeastern, Johns Hopkins, University of Virginia, ENS Paris
2021	Sorbonne Paris Nord, Copenhagen, Haifa, MIT, Hamburg, Strasbourg
2020	Northeastern, Fields Institute, Aarhus
2019	UC Louvain, Paris Cité
2018	Stockholm, Sorbonne Université, Regina
2017	Nantes, Strasbourg, Angers, Toulouse, Lille, Zurich
2016	Sorbonne Paris Nord, Lille, Zurich
2015	Lille (*2), Amiens, UC Louvain

Teaching

At Université Paris Cité

2025–2026	Algebra , M1 Math-CS (Cryptography), lectures + exercise sessions, 67.5h
2024–2025	Algebra , M1 Math-CS (Cryptography), lectures, 36h Fundamental Algebra and Analysis 2 , L2 MIAHS, exercise sessions, 54h Elementary Analysis 1 , L1 CS, lectures + exercise sessions, 45h
2023–2024	Algebra , M1 Math-CS (Cryptography), lectures, 36h Mathematical Reasoning 2 , L1 MIAHS, lectures + organization + exercise sessions, 18+5+18h Affine and Euclidean geometry 5 , L3 Math, exercise sessions, 18h Fundamental Algebra and Analysis 2 , L2 MIAHS, exercise sessions, 54h
2022–2023	Mathematical Reasoning 2 , L1 MIAHS, lectures + organisation + exercise sessions, 18+5+18h Computer and Internet Tools , L1 Math, labs, 12h
2021–2022	Homotopy II , M2 Fundamental Mathematics, lectures, 24h Algorithms and Programming , L2 Math, exercise sessions + labs, 42h Mathematical Reasoning 2 , L1 MIAHS, lectures + organization + exercise sessions, 18+5+18h Affine and Euclidean geometry 5 , L3 Math, exercise sessions, 18h Elementary mathematics 1 , L1 Physique, exercise sessions, 54h
2020–2021	Homotopy II , M2 Fundamental Mathematics, lectures, 24h

Elementary Algebra and Analysis 1 + Mathematical Reasoning 1, L1 Math, lecture + exercises, 56.5h

Elementary Algebra and Analysis 2, L1 Chemistry, exercise sessions, 36h

Algorithms and Programming, L2 Math, exercise sessions + labs, 42h

Mock oral exams, Preparation to the 'agrégation interne,' 2.5h

2019–2020 **Introduction to Homotopy Theory**, M2 of Fundamental Mathematics, lectures, 24h

Elementary Algebra and Analysis + Mathematical Reasoning 1, L1 MIAHS, lectures + exercises, 56.5h

Elementary Algebra and Analysis 2, L1 Chemistry, exercise sessions, 36h

Algorithms and Programming, L2 Math, exercise sessions + labs, 42h

2018–2019 **Elementary Algebra and Analysis 1**, L1 MIAHS, lectures + exercises, 72h

Elementary Algebra and Analysis 2, L1 Chemistry, exercise sessions, 36h

At Université de Lille

2017–2018 **Calculus 1**, L1 MASS, exercise sessions, 36h

Fundamental mathematics 1, L1 SESI, oral exams & tutoring, 16+10h

2016–2017 **Matrix calculus**, L2 econ-management, exercise sessions, 36h

Calculus 1, L1 econ-management, exercise sessions, 15h

Calculus 1, L1 MASS, exercise sessions, 15h

2015–2016 **Fundamental mathematics 2**, L1 SESI, exercise sessions, 66h

Outside usual teaching duties

Aug. 2024 & Aug. 2025 **Algebraic Topology**, School of Mathematical Sciences, University of Chinese Academy of Sciences (UCAS), Beijing, China

Mar. 2023 **Configurations spaces, algebraic topology and operads**, Crossroads of geometry, representation theory and higher structures, 2023 CIMPA School, Puerto Madryn, Argentina
<https://crossroads-2023.github.io/>

Spring 2020 **Real Homotopy of Configuration Spaces**, Peccot Lecture, Collège de France, 8h
<https://www.college-de-france.fr/fr/agenda/conferencier-invite/homotopie-reelle-des-espaces-de-configuration>