

Academic Career

- Since **Maître de conférences**, *Université Paris Cité & Institut de Mathématiques de Jussieu–Paris Rive Gauche (IMJ-PRG)*
- Sept. 2018 Position started at Université Paris Diderot (“Paris 7”), which merged in 2020 with Université Paris Descartes to form Université Paris Cité.
- Feb. 2018 – **Postdoctoral researcher**, *ETH Zürich*
- Aug. 2018 Group of Thomas Willwacher. Funded by ERC StG 678156–GRAPHCPX.
- Sept. 2015 – **Doctorate in Mathematics**, *Université de Lille & Laboratoire Paul Painlevé*
- Jan. 2018 Title: *Operadic Formality and Homotopy of Configuration Spaces*. Advisor: Benoit Fresse. Thesis defended on November 17th, 2017.
- 2011–2015 **Élève de l’ENS**, *École Normale Supérieure de Paris*

Awards

- 2021–2024 **Research and Doctoral Supervision Bonus (“PEDR”)**, *Université Paris Cité*.
Bonus awarded on the advice of the *Conseil National des Universités* (application ranked A).
- 2020 **Peccot Lecture**, *Collège de France – Fondation Claude-Antoine Peccot*, Paris, France

Research

General keywords: Topology, Algebra.

Specific keywords: Homotopy theory; Operads; Configuration Spaces; Homological stability; Factorization Homology; Graph Complexes.

Publications

- [1] Ricardo Campos, Najib Idrissi, Pascal Lambrechts, and Thomas Willwacher. *Configuration Spaces of Manifolds with Boundary*. *Astérisque* 449. Soc. Math. Fr., 2024. ISBN: 978-2-85629-990-6. doi: 10.24033/ast.1222. arXiv: 1802.00716.
- [2] Najib Idrissi and Eugene Rabinovich. “Homotopy Prefactorization Algebras.” In: *Res. Math. Sci.* 11.45 (2024). doi: 10.1007/s40687-024-00456-9. arXiv: 2304.13011.
- [3] Najib Idrissi 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.
- [4] Najib Idrissi. “Curved Koszul duality of algebras over unital versions of binary operads.” In: *J. Pure Appl. Algebra* 227.3 (2023). issn: 0022-4049. doi: 10.1016/j.jpaa.2022.107208. arXiv: 1805.01853.
- [5] Najib Idrissi. *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.
- [6] Ricardo Campos, Julien Ducoulombier, and Najib Idrissi. “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.
- [7] Najib Idrissi. “Formality of a higher-codimensional Swiss-Cheese operad.” In: *Algebr. Geom. Topol.* 1 (22 2020), pp. 55–111. doi: 10.2140/agt.2022.22.55. arXiv: 1809.07667.
- [8] Najib Idrissi. “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.
- [9] Najib Idrissi. “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.
- [10] Najib Idrissi. “Opérades et Structures Commutatives à Homotopie Près.” In: *Grad. J. Math.* 1.1 (2016), pp. 9–17. issn: 1737-0299. url: <http://www.gradmath.org/article/operades-et-structures-commutatives-a-homotopie-pres/>.

Preprints

- [1] Ricardo Campos, Najib Idrissi, and Thomas Willwacher. *Configuration Spaces of Surfaces*. Version 2. 2019. arXiv: 1911.12281. 50 pp.
- [2] Ricardo Campos, Julien Ducoulombier, Najib Idrissi, and Thomas Willwacher. *A model for framed configuration spaces of points*. 2018. arXiv: 1807.08319. 27 pp.

Other documents

- [1] Najib Idrissi. “Formalité opéradique et homotopie des espaces de configuration.” PhD thesis. Université Lille 1, Nov. 17, 2017. 173 pp. url: <http://ori.univ-lille1.fr/notice/view/univ-lille1-ori-455595>.

[2] Najib Idrissi. “Homologie et complexes de déformations d’opéradés E_n .” Master’s thesis. Université Paris Diderot, 2014.

Funding

Obtained

- 2022–2027 **PI of the project “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://shocos.idrissi.eu>
- 2022 **Délégation CNRS**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG)*, First semester of 2022–2023
Sabbatical semester (100% research) funded by the CNRS.
- 2019 **PEPS Project “Young Researcher” (PEPS JCJC)**, *CNRS / Insmi*
Budget: 3500 € over one year.
- 2015–2018 **Specific doctoral contract “normalien” (CDSN)**, *École Normale Supérieure de Paris*
Fully funded PhD, carried out at Université de Lille.

Member

- 2021–2024 ANR project “Higher Algebra, Geometry, and Topology (HighAGT)” coordinated by Bruno Vallette.
- 2014–2015 ANR project “Homotopie algébrique, Opéradés et groupes de Grothendieck–Teichmüller (HOGT)” coordinated by Benoit Fresse.

Supervision

Postdoctoral researchers

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

PhD theses

- 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”.
- 2022–2025 Marie-Camille Delarue (codir w/ N. Wahl), “Stable Homology of Higman–Thompson Groups and Generalizations”.

Master’s theses

- 2023–2024 Filipp Buryak (codir w/ E. Lindell), “Mapping class groups, braid groups and operads”
- 2022–2023 François 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 theses)

- 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 head**, *Team-project “Algebraic & Geometric Topology”*, IMJ-PRG
- 2022–2025 **Scientific Council**, *Mathematics department*, Université Paris Cité
- Since 2021 **Project ical-ufr**, *Université Paris Cité*, UFR de Mathématiques
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.
- Since 2021 **Guidance Counseling**, *Paris Graduate School of Mathematical Sciences*
2023–2024, 2024–2025: Antonio Radimilay. 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.
- 2022– **Algebraic Topology Afternoons**, *IMJ-PRG & LAGA*
- 2018–2020 **Topology Seminar**, *IMJ-PRG*
- 2019 **Reading seminar on homological stability**, *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

Scientific outreach

- 2024 **10th grade “observation internships”**, *Université Paris Cité*
Host for an afternoon of graph theory for 10th graders on an “observation internship” for two weeks at the university.

2021, 2023 **Fête de la science**, *Université Paris Cité*

Outreach event for the general 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 defense committees

2020: Erica Minuz (dir: M. Bökstedt, Aarhus University)

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

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 AIMaRe**, *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 (Vancouver)*

Oct. 2017 **Séminaire Itinérant de Catégories**, *Université du Littoral Côte d’Opale*

July 2017 **Young Topologists Meeting 2017**, *Stockholm Universitet & KTH*

Feb. 2017 **Conference for Young researchers in homotopy theory and categorical structures**, *Max-Planck-Institut für Mathematik (MPIM)*

Oct. 2016 **Institut des Hautes Études à Tunis**, *Conference in the honour of Saïd Zarati*

Oct. 2016 **Université de Picardie Jules Verne**, *Colloque 2016 du GDR Topologie Algébrique et Applications*

Seminars

Jan. 2025 **Université de Lille**, *Séminaire de Topologie*

Dec. 2024 **Università degli studi di Roma “Tor Vergata”**, *Topology Seminar*

Déc. 2024 **ENS de Paris**, *Séminaire « Des mathématiques »*

Nov. 2022 **Purdue University**, *Topology Seminar*

May 2022 **Northeastern University**, *Topology Seminar*

Apr. 2022 **Johns Hopkins University**, *Topology Seminar*

Mar. 2022 **University of Virginia**, *Topology Seminar*

Mar. 2022 **École Normale Supérieure (Paris)**, *Raconte moi...*

June 2021 **Université Sorbonne Paris-Nord**, *Séminaire de l’équipe Topologie Algébrique*

May 2021 **Københavns Universitet**, *Algebra and Topology Seminar*, online

May 2021 **University of Haifa**, *Topology and Geometry seminar*, online

Mar. 2021 **Massachusetts Institute of Technology (MIT)**, *Topology Seminar*, online

Feb. 2021 **Universität Hamburg**, *Research Seminar on Algebraic Topology*, online

Jan. 2021 **Université de Strasbourg**, *Séminaire Algèbre et topologie*, online

Oct. 2020 **Northeastern University**, *Topology seminar*, online

Apr. 2020 **Institut Fields**, *Toric Topology Research Seminar*, online

- Jan. 2020 **Seminar, Aarhus Universitet**
- July 2019 **Université catholique de Louvain, Séminaire de Topologie Algébrique**
- May 2019 **IMJ-PRG, Séminaire de Topology**
- Dec. 2018 **Stockholm Universitet & KTH, Stockholm Topology Seminar**
- Nov. 2018 **IMJ-PRG, Geometry & Topology Seminar**
- June 2018 **University of Regina, Departmental Colloquium**
- Dec. 2017 **Université de Nantes, Topology, Geometry, and Algebra seminar**
- Dec. 2017 **Université de Strasbourg, Algebra and Topology seminar**
- Nov. 2017 **Université d'Angers, Séminaire de Physique Mathématique et de Topologie Algébrique**
- Nov. 2017 **Université Paul Sabatier (Toulouse), Séminaire Homotopie en Géométrie Algébrique**
- Oct. 2017 **Université de Lille, Séminaire de Géométrie des Espaces Singuliers ($\times 2$)**
- Aug. 2017 **ETH Zürich, Talks in mathematical physics**
- May 2017 **Université de Lille, Séminaire de Géométrie des espaces singuliers ($\times 2$)**
- Jan. 2017 **Université catholique de Louvain, Séminaire de Topologie Algébrique**
- Nov. 2016 **Université Paris 13, Séminaire de topologie algébrique**
- Sept. 2016 **Université de Lille, Séminaire de Topologie**
- June 2016 **ETH Zürich, Talks in Mathematical Physics**
- Apr. 2016 **IMJ-PRG, Séminaire de Topologie**
- Dec. 2015 **Université de Lille, Séminaire des doctorants**
- Dec. 2015 **Université de Picardie Jules Verne, Séminaire des doctorants**
- Oct. 2015 **Université catholique de Louvain, Séminaire de Topologie Algébrique**
- Sept. 2015 **Université de Lille, Séminaire de Topologie**

Teaching

- Aug. 2024 **Algebraic Topology**, School of Mathematical Sciences, University of Chinese Academy of Sciences, Beijing, China
- Mar. 2023 **Configurations spaces, algebraic topology and operads**, Crossroads of geometry, representation theory and higher structures, 2023 CIMPA School, Puerto Madryn, Argentina
- 2020 **Real Homotopy of Configuration Spaces**, Peccot Lecture, Collège de France, 8h
- Université Paris Cité**
- 2024–2025 **Algebra**, M1 Maths-CS (Cryptography), lectures, 36h
Fundamental Algebra and Analysis II, L2 MIASHS, exercise sessions, 54h
Elementary Analysis 1, L1 CS, lectures + exercise sessions, 45h
- 2023–2024 **Algebra**, M1 Maths-CS (Cryptography), lectures, 36h
Mathematical Reasoning 2, L1 MIASHS, lectures + organisation + exercise sessions, 18+5+18h
Affine and Euclidean geometry 5, L3 Maths, exercise sessions, 18h
Fundamental Algebra and Analysis II, L2 MIASHS, exercise sessions, 54h
- 2022–2023 **Mathematical Reasoning 2**, L1 MIASHS, lectures + organisation + exercise sessions, 18+5+18h
Computer and Internet Tools, L1 Maths, labs, 12h
- 2021–2022 **Homotopy II**, M2 Fundam. Math, lectures, 24h
Algorithms and Programming, L2 Maths, exercise sessions + labs, 42h
Mathematical Reasoning 2, L1 MIASHS, lectures + organisation + exercise sessions, 18+5+18h
Affine and Euclidean geometry 5, L3 Maths, exercise sessions, 18h
Elementary mathematics 1, L1 Physique, exercise sessions, 54h
- 2020–2021 **Homotopy II**, M2 Fundam. Math, lectures, 24h
Elementary Algebra and Analysis 1 + Mathematical Reasoning 1, L1 Maths, lecture+exercises, 56.5h
Elementary Algebra and Analysis 2, L1 Chemistry, exercise sessions, 36h
Algorithms and Programming, L2 Maths, 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 1 + Mathematical Reasoning 1, L1 MIASHS, lectures + exercises, 56.5h
Elementary Algebra and Analysis 2, L1 Chemistry, exercise sessions, 36h
Algorithms and Programming, L2 Maths, exercise sessions + labs, 42h
- 2018–2019 **Elementary Algebra and Analysis 1**, L1 MIASHS, lectures + exercises, 72h

Université de Lille

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

Visits

- Nov. 2022 Eugene Rabinovich @ University of Notre Dame (5 days).
- May 2022 Ben Knudsen @ Northeastern University (5 days).
- Apr. 2022 Owen Gwilliam @ UMass Amherst (5 days).
- July 2019 Pascal Lambrechts @ Université catholique de Louvain (5 days).
- June 2019 Thomas Willwacher @ ETH Zurich (5 days).
- June 2018 Don Stanley @ University of Regina (10 days).
- Aug. 2017 Thomas Willwacher @ ETH Zurich (5 days).
- Jan. 2017 Pascal Lambrechts @ Université catholique de Louvain (5 days).
- June 2016 Thomas Willwacher @ ETH Zurich (4 days).