Najib Idrissi

Curriculum Vitæ

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Academic Career

Since Sept. 2018   **Maître de conférences**, *Université de Paris* & *Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG)*, Paris, France.
∗. Formerly Université Paris Diderot – Paris 7.

Feb. 2018–Aug. 2018   **Postdoctoral researcher**, *ETH Zürich*, Zürich, Switzerland.
Group of Thomas Willwacher. Funded by ERC StG 678156–GRAPHCPX.

Sept. 2015–Jan. 2018   **Doctorate in Mathematics**, *Université de Lille & Laboratoire Paul Painlevé*, Lille, France.
Thesis defended on November 17th, 2017. Advisor: Benoit Fresse.
Title: *Operadic Formality and Homotopy of Configuration Spaces*.

Sept. 2011–Aug. 2015   **Élève fonctionnaire stagiaire**, *École Normale Supérieure de Paris*, Paris, France.
2014–2015: Research internship in preparation of a doctorate, Université de Lille.
2013–2014: Master's degree in Fundamental Mathematics, Université Paris Diderot.
Fall 2013: Research internship in algebraic topology, Massachusetts Institute of Technology.

2009–2011   **Classes prépas (MPSI/MP∗)**, *Lycée Henri Wallon*, Valenciennes, France.

Awards

2019–2020   **Peccot Lecture**, *Collège de France – Fondation Claude-Antoine Peccot*, Paris, France.
"[…] rewards each year young mathematicians under 30 who have been noticed in theoretical or applied mathematics"

Research

Publications

[1] 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.

[2] 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.

Preprints

[3] Ricardo Campos, Julien Ducoulombier, and Najib Idrissi. *Boardman–Vogt resolutions and bar/cobar constructions of (co)operadic (co)bimodules*. 2019. arXiv: 1911.09474. Pre-published.

[4] Ricardo Campos, Najib Idrissi, and Thomas Willwacher. *Configuration Spaces of Surfaces*. 2019. arXiv: 1911.12281. Pre-published.

[5] Ricardo Campos, Julien Ducoulombier, Najib Idrissi, and Thomas Willwacher. *A model for framed configuration spaces of points*. 2018. arXiv: 1807.08319. Submitted. 27 pp.

[6] Ricardo Campos, Najib Idrissi, Pascal Lambrechts, and Thomas Willwacher. *Configuration Spaces of Manifolds with Boundary*. 2018. arXiv: 1802.00716. Submitted. 107 pp.

[7] Najib Idrissi. *Curved Koszul Duality for Algebras over Unital Operads*. 2018. arXiv: 1805.01853. Submitted. 33 pp.

[8] Najib Idrissi. *Formality of a higher-codimensional Swiss-Cheese operad*. 2018. arXiv: 1809.07667. Submitted. 40 pp.

Other documents

[9] 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.

[10] Najib Idrissi. "Homologie et complexes de déformations d'opérades E_n". Master's thesis. Université Paris Diderot, 2014.

[11] 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/.

Funding

Obtained

2019	Holder of an *Exploratory Project for First Support "Young Researcher (PEPS JCJC)"*, CNRS / Insmi, 3500 €.
Sept. 2015–Jan. 2018	Specific doctoral contract "*normalien*", École Normale Supérieure de Paris.

Member

2014–2015	Member of the ANR project "*Homotopie algébrique, Opérades et groupes de Grothendieck–Teichmüller (HOGT)*" (HOGT). Coordinator: Benoit Fresse.

Service

Organization

Since Oct. 2018	**One of the organizers of the Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*.
Jan. 2019–June 2019	**Organization of a reading seminar on homological stability**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*.
Oct. 2017	**Participation to the organization of the introductory day for young researchers**, *Colloque 2017 du GDR Topologie Algébrique*, Paris.
2016–2017	**One of the organizers of the PhD students' seminar**, *Laboratoire Paul Painlevé*, Lille.

Jurys

Jan. 2020	**PhD defense jury of Erica Minuz (advisor: Marcel Bökstedt)**, *Aarhus University*.
2018–2019	**Exam jury for L1 MIASHS**, *Université Paris Diderot*.

Other

ongoing	**Peer reviews**. Algebraic & Geometric Topology, Communications in Mathematical Physics, Letters in Mathematical Physics, Royal Society of Edinburgh: Proceedings A, Selecta Mathematica
ongoing	**Writing of abstracts for Zentralblatt MATH**.

Talks

Invited

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 (junior speaker)**, *Fields Institute*, Toronto.

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

Contributed

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)*, Bonn.
Oct. 2016	**2016 Meeting of the GDR Algebraic Topology and Applications**, *Université de Picardie Jules Verne*.

Seminars

July 2019	**Algebraic Topology Seminar**, *Université catholique de Louvain*.
May 2019	**Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*.
Dec. 2018	**Stockholm Topology Seminar**, *Stockholm Universitet & KTH*.
Nov. 2018	**Geometry & Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*.
June 2018	**Colloque du département**, *University of Regina*.
Dec. 2017	**Topology, Geometry, and Algebra seminar**, *Université de Nantes*.
Dec. 2017	**Algebra and Topology seminar**, *Université de Strasbourg*.
Nov. 2017	**Mathematical Physics and Algebraic Topology Seminar**, *Université d'Angers*.
Nov. 2017	**Homotopy in Algebraic Geometry Seminar**, *Université Paul Sabatier*.
Oct. 2017	**Singular Spaces Geometry Seminar**, *Université de Lille*.
Oct. 2017	**Singular Spaces Geometry Seminar**, *Université de Lille*.
Aug. 2017	**Talks in mathematical physics**, *ETH Zürich*.
May 2017	**Singular Spaces Geometry Seminar**, *Université de Lille*.
May 2017	**Singular Spaces Geometry Seminar**, *Université de Lille*.
Jan. 2017	**Algebraic Topology Seminar**, *Université catholique de Louvain*.
Nov. 2016	**Algebraic Topology Seminar**, *Université Paris 13*.
Sept. 2016	**Topology Seminar**, *Université de Lille*.
June 2016	**Talks in Mathematical Physics**, *ETH Zürich*.
Apr. 2016	**Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*.
Dec. 2015	**PhD students' seminar**, *Université de Lille*.
Dec. 2015	**PhD students' seminar**, *Université de Picardie Jules Verne*.
Oct. 2015	**Algebraic Topology seminar**, *Université catholique de Louvain*.
Sept. 2015	**Topology Seminar**, *Université de Lille*.

Teaching

2019–2020	Homotopy Theory, M2 Fundam. Math (lectures, 24h) • Elementary Algebra and Analysis 1 + Mathematical Reasoning 1, L1 MIASHS (lecture+exercises, 56.5h) • Elementary Algebra and Analysis 2, L1 Chemistry (exercises, 36h) • Algorithms and Programmation, L2 (exercises+labs, 42h).
2018–2019	Elementary Algebra and Analysis 1, L1 MIASHS (lecture+exercises, 72h) • Elementary Algebra and Analysis 2, L1 Chemistry (exercises, 36h).
2017–2018	Calculus 1, L1 MASS (exercises, 36h) • Fundamental mathematics 1, L1 SESI (oral exams & tutoring, 10h).
2016–2017	Matrix calculus, L2 econ-management (exercises, 36h) • Calculus 1, L1 econ-management (exercises, 15h) • Calculus 1, L1 MASS (exercises, 15h).

2015–2016   Fundamental mathematics 2, L1 SESI (exercises, 66h).

Visits

July 2019   Université catholique de Louvain – Pascal Lambrechts (5 d.).
June 2019   ETH Zurich – Thomas Willwacher (5 d.).
June 2018   University of Regina – Don Stanley (10 d.).
Aug. 2017   ETH Zurich – Thomas Willwacher (5 d.).
Jan. 2017   Université catholique de Louvain – Pascal Lambrechts (5 d.).
June 2016   ETH Zurich – Thomas Willwacher (4 d.).

Conferences, workshops and thematic schools attended

2019   *Opening workshop of the OCHoTop project* (EPFL) • *Journée de topologie* (Université de Picardie Jules Verne) • *Colloque 2019 du GDR Topologie Algébrique et Applications* (Université d'Artois) • *Groupe de travail : Valeurs zêta multiples en quantification par déformation* (Université de Montpellier) • *SYM 10 Years Old* (Københavns Universitet) • *Topologie de basse dimension : Colloque en l'honneur de Christian Blanchet* (Université Paris Diderot) • *Higher Homotopy Algebras in Topology* (Max-Planck-Institut für Mathematik, Bonn) • *Structures Supérieures* (Centre International de Rencontres Mathématiques, Luminy) • *Higher Structures in Holomorphic and Topological Field Theory* (Institut des Hautes Études Scientifiques).

2018   *New trends in K-theory and homotopy theory – A conference in honor of Max Karoubi's 80th birthday* (Institut Henri Poincaré, Paris) • *Colloque 2018 du GDR Topologie Algébrique* (Université de Montpellier) • *Derived Geometry and Higher Categorical Structures in Geometry and Physics* (Fields Institute) • *Graph Complexes, Configuration Spaces and Manifold Calculus* (University of British Columbia) • *Rational Homotopy and its Applications* (Université de Lille).

2017   *Colloque 2017 du GDR Topologie Algébrique* (Université Paris Diderot) • *Séminaire Itinérant de Catégories* (Université du Littoral Côte d'Opale) • *Journée des doctorants du Nord-Pas-de-Calais* (Université du Littoral Côte d'Opale) • *Workshop on Persistent Homology* (Université de Montpellier) • *Young Topologists Meeting 2017* (Stockholm Universitet & KTH) • *Algebraic Topology and Representation Theory* (Université de Lille) • *Derived Algebraic Geometry and Interactions* (Université de Toulouse) • *Fourth Young Mathematicians Colloquium* (Vrije Universiteit Brussel) • *Lens Topology and geometry 2017* (Université d'Artois, Lens) • *Workshop on Quantum Topology* (Université de Lille) • *Conference for Young researchers in homotopy theory and categorical structures* (Max-Planck-Institut für Mathematik, Bonn).

2016   *Conference in the honour of Saïd Zarati* (Institut des Hautes Études à Tunis) • *Colloque 2016 du GDR Topologie Algébrique et Applications* (Université de Picardie Jules Verne) • *Young Topologists Meeting 2016* (Københavns Universitet) • *Workshop: Factorization Algebras and Functorial Field Theories* (Mathematisches Forschungsinstitut Oberwolfach) • *Séminaire Itinérant de Catégories* (Université de Lille).

2015   *Colloque 2015 du GDR Topologie Algébrique et Applications* (Université de Toulouse-3) • *Lens Topology and geometry 2015* (Université d'Artois, Lens) • *Introductory School – Homotopy theory, manifolds, and field theories* (Hausdorff Research Institute for Mathematics) • *Séminaire du projet ANR HOGT* (Université de Strasbourg) • *Second Young Mathematicians Colloquium* (KU Leuven Kulak) • *Séminaire Itinérant de Catégories* (Université du Littoral Côte d'Opale, Calais) • *Masterclass : K-théorie topologique et applications* (Université de Strasbourg) • *Séminaire du projet ANR HOGT* (Université de Lille).

2014   *Colloque 2014 du GDR Topologie Algébrique et Applications* (Université Blaise Pascal) • *Colloque de clôture du projet ANR HOGT* (Université de Nice) • *Espaces des lacets en géométrie et topologie* (Université de Nantes) • *Young Topologists Meeting 2014* (Københavns Universitet) • *Young Mathematicians Colloquium* (Université de Lille) • *Séminaire du projet ANR HOGT* (Université de Lille).

2013   *Gelfand Centennial Conference: A View of 21st Century Mathematics* (Massachusetts Institute of Technology) • *Conference in Algebra and Topology celebrating Lionel Schwartz's 60th birthday* (Université de Nantes).