Najib Idrissi

Curriculum Vitæ

Université Paris Diderot – IMJ-PRG
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Academic Career

Since 09/2018 Maître de conférences, Université Paris Diderot* / Institut de Mathématiques de Jussieu-

Paris Rive Gauche (IMJ-PRG), Paris, France.

 $\star.$ Member of the University of Paris.

02/2018–08/2018 **Postdoctoral researcher**, *ETH Zürich*, Zürich, Switzerland.

Group of Thomas Willwacher. Funded by ERC StG 678156-GRAPHCPX.

09/2015–01/2018 **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*.

*. Formerly Université Lille-1.

09/2011–08/2015 Élève fonctionnaire stagiaire, École Normale Supérieure de Paris*, Paris, France.

2014–2015: Research internship in preparation of a PhD, Université Lille-1.

2013–2014: Master's degree in Fundamental Mathematics, Université Paris Diderot.

Fall 2013: Research internship in algebraic topology, MIT. Ranked 1st on the "INFO" 2011 competitive entrance exam.

*. Member of PSL University.

Research

Publications

- [1] Najib Idrissi. "The Lambrechts-Stanley Model of Configuration Spaces". In: *Invent. Math* (2018), pp. 1–68. ISSN: 1432-1297. DOI: 10.1007/s00222-018-0842-9. arXiv: 1608.08054. In press.
- [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, Najib Idrissi, and Thomas Willwacher. *A model for framed configuration spaces of points*. 2018. arXiv: 1807.08319. Submitted. 27 pp.
- [4] Ricardo Campos, Najib Idrissi, Pascal Lambrechts, and Thomas Willwacher. *Configuration Spaces of Manifolds with Boundary*. 2018. arXiv: 1802.00716. Submitted. 107 pp.
- [5] Najib Idrissi. *Curved Koszul Duality for Algebras over Unital Operads*. 2018. arXiv: 1805.01853. Submitted. 33 pp.
- [6] Najib Idrissi. Formality of a higher-codimensional Swiss-Cheese operad. 2018. arXiv: 1809.07667. Submitted. 40 pp.

Other documents

- [7] 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.
- [8] 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/.

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

Service

- Since 10/2018 **One of the organizers of the Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*, Paris, France.
 - 2019 **Organization of a working seminar on homological stability**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*, Paris, France.
 - 10/2017 Participation to the organization of the introductory day for young researchers, Colloque 2017 du GDR Topologie Algébrique, Paris, France.
 - 2016–2017 **One of the organizers of the PhD students' seminar**, *Laboratoire Paul Painlevé*, Lille, France.
 - 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.

Funding

Obtained

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

Participation

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

Research visits

- 06/2019* (5 d.) ETH Zurich Thomas Willwacher.
- 06/2018 (10 d.) University of Regina Don Stanley.
- 08/2017 (5 d.) ETH Zurich Thomas Willwacher.
- 01/2017 (5 d.) Université catholique de Louvain Pascal Lambrechts.
- 06/2016 (4 d.) ETH Zurich Thomas Willwacher.

Talks

Invited

- 05/2019* Higher Homotopy Algebras in Topology, MPIM, Bonn, Germany.
- 01/2019 **Higher Structures**, *Centre international de rencontres mathématiques (CIRM)*, Luminy, France.

Configuration spaces and operads

- O6/2018 Derived Geometry and Higher Categorical Structures in Geometry and Physics (junior speaker at the summer school), Fields Institute, Toronto, Canada.

 Curved Koszul Duality for Algebras over Unital Operads
- O5/2018 Graph Complexes, Configuration Spaces and Manifold Calculus, University of British Columbia, Vancouver, Canada.
 Configuration Spaces of Manifolds with Boundary
- 10/2017 **Séminaire Itinérant de Catégories**, *Université du Littoral Côte d'Opale*, Calais, France. L'opérade Swiss-Cheese et le centre de Drinfeld

10/2016	Conference in the honour of Saïd Zarati, <i>Institut des Hautes Études à Tunis (IHET)</i> , Tunis, Tunisia.
	The Lambrechts-Stanley Model of Configuration Spaces
	Contributed
07/2017	Young Topologists Meeting 2017 , <i>Stockholm Universitet & KTH</i> , Stockholm, Sweden. The Lambrechts–Stanley Model of Configuration Spaces
02/2017	Conference for Young researchers in homotopy theory and categorical struc-
	tures, MPIM, Bonn, Germany. The Lambrechts-Stanley Model of Configuration Spaces
10/2016	2016 Meeting of the GDR Algebraic Topology and Applications , <i>LAMFA</i> , Amiens, France.
	The Lambrechts-Stanley Model of Configuration Spaces
	Seminars
12/2018	Stockholm Topology Seminar , <i>Stockholm Universitet & KTH</i> , Stockholm, Sweden. Configuration spaces and Operads
11/2018	Geometry & Topology Seminar , <i>IMJ-PRG</i> , Paris, France. Espaces de configuration et Opérades
06/2018	Colloque du département , <i>University of Regina</i> , Regina (SK), Canada. Configuration Spaces and Graphs Complexes
12/2017	Topology, Geometry, and Algebra seminar , <i>Université de Nantes</i> , Nantes, France. Espaces de configuration de variétés compactes
12/2017	Algebra and Topology seminar , <i>Université de Strasbourg</i> , Strasbourg, France. Espaces de configuration de variétés compactes
11/2017	Mathematical Physics and Algebraic Topology Seminar, <i>Université d'Angers</i> , Angers, France. Espaces de configuration de variétés compactes
11/2017	Homotopy in Algebraic Geometry Seminar, Université Paul Sabatier, Toulouse,
	France. Espaces de configuration de variétés compactes
10/2017	Singular Spaces Geometry Seminar, Université Lille-1, Lille, France.
10/2017	Introduction à la théorie de l'homotopie rationnelle
10/2017	Singular Spaces Geometry Seminar, <i>Université Lille-1</i> , Lille, France. L'opérade Swiss-Cheese et le centre de Drinfeld
08/2017	Talks in mathematical physics , <i>ETH Zürich</i> , Zürich, Switzerland. Configuration Spaces of Compact Manifolds
05/2017	Singular Spaces Geometry Seminar , <i>Université Lille-1</i> , Lille, France. Le modèle de Lambrechts–Stanley des espaces de configuration
05/2017	Singular Spaces Geometry Seminar , <i>Université Lille-1</i> , Lille, France. La compactification de Fulton-MacPherson des espaces de configuration
01/2017	Algebraic Topology Seminar, Université catholique de Louvain / Institut de recherche en mathématique et physique, Louvain-la-Neuve, Belgium. Le modèle de Lambrechts-Stanley des espaces de configuration
11/2016	Algebraic Topology Seminar , <i>Université Paris 13</i> , Paris, France. Le modèle de Lambrechts–Stanley des espaces de configuration
09/2016	Topology Seminar , <i>Université Lille-1</i> , Lille, France. Le modèle de Lambrechts-Stanley des espaces de configuration
06/2016	Talks in Mathematical Physics , <i>ETH Zürich</i> , Zürich, Switzerland. Swiss-Cheese operad and Drinfeld center

04/2016 **Topology Seminar**, *IMJ-PRG*, Paris, France. L'opérade Swiss-Cheese et le centre de Drinfeld PhD students' seminar, Laboratoire Paul Painlevé, Lille, France. 12/2015 **Opérades** 12/2015 PhD students' seminar, LAMFA, Amiens, France. Opérades 10/2015 Algebraic Topology seminar, Université catholique de Louvain / Institut de recherche en mathématique et physique, Louvain-la-Neuve, Belgium. L'opérade Swiss-Cheese et le centre de Drinfeld **Topology Seminar**, *Université Lille 1 / Laboratoire Paul Painlevé*, Lille, France. 09/2015 L'opérade Swiss-Cheese et le centre de Drinfeld Teaching 2018-2019 Elementary Algebra and Analysis 1, L1 MIASHS (lecture+exercises, 72h) • Elementary Algebra and Analysis 2, L1 Chemistry (exercises, 36h). Calculus 1, L1 MASS (exercises, 36h) • Fundamental mathematics 1, L1 SESI (oral 2017-2018 exams & tutoring, 10h). 2016-2017 Matrix calculus, L2 econ-management (exercises, 36h) • Calculus 1, L1 econmanagement (exercises, 15h) • Calculus 1, L1 MASS (exercises, 15h). Fundamental mathematics 2, L1 SESI (exercises, 66h). 2015-2016 Conferences, workshops and thematic schools attended 06/2019* SYM 10 Years Old @ Københavns Universitet. 05/2019* Higher Homotopy Algebras in Topology @ MPIM Bonn. 01/2019 Higher Structures @ Centre international de rencontres mathématiques (CIRM, Luminy). 01/2019 Higher Structures in Holomorphic and Topological Field Theory @ Institut des Hautes Études Scientifiques. 10/2018 New trends in K-theory and homotopy theory – A conference in honor of Max Karoubi's 80th birthday @ Institut Henri Poincaré. 10/2018 Colloque 2018 du GDR Topologie Algébrique @ Université de Montpellier. 06/2018 Derived Geometry and Higher Categorical Structures in Geometry and Physics @ Fields Institute. 05/2018 Graph Complexes, Configuration Spaces and Manifold Calculus @ University of British Columbia. 01/2018 Rational Homotopy and its Applications @ Université de Lille. 10/2017 Colloque 2017 du GDR Topologie Algébrique @ Université Paris Diderot. 10/2017 Séminaire Itinérant de Catégories @ Université du Littoral Côte d'Opale. Journée des doctorants du Nord-Pas-de-Calais @ Université du Littoral Côte d'Opale. 09/2017 07/2017 Workshop on Persistent Homology @ Université de Montpellier. Young Topologists Meeting 2017 @ Stockholm Universitet & KTH. 07/2017 Algebraic Topology and Representation Theory @ Université de Lille. 06/2017 06/2017 Derived Algebraic Geometry and Interactions @ Université de Toulouse. 06/2017 Fourth Young Mathematicians Colloquium @ Vrije Universiteit Brussel. 05/2017 Lens Topology and geometry 2017 @ Université d'Artois (Lens). 03/2017 Workshop on Quantum Topology @ Université Lille-1.

- 02/2017 Conference for Young researchers in homotopy theory and categorical structures @ MPIM Bonn.
- 10/2016 Conference in the honour of Saïd Zarati @ IHET (Tunis).
- 10/2016 Colloque 2016 du GDR Topologie Algébrique et Applications @ Université de Picardie Jules Verne.
- 07/2016 Young Topologists Meeting 2016 @ Københavns Universitet.
- 05/2016 Workshop: Factorization Algebras and Functorial Field Theories @ Mathematisches Forschungsinstitut Oberwolfach.
- 03/2016 Séminaire Itinérant de Catégories @ Université Lille 1.
- 10/2015 Colloque 2015 du GDR Topologie Algébrique et Applications @ Université de Toulouse-3.
- 06/2015 Lens Topology and geometry 2015 @ Université d'Artois (Lens).
- 05/2015 Introductory School Homotopy theory, manifolds, and field theories @ Hausdorff Research Institute for Mathematics.
- 03/2015 Séminaire du projet ANR HOGT @ Université de Strasbourg.
- 03/2015 Second Young Mathematicians Colloquium @ KU Leuven Kulak.
- 03/2015 Séminaire Itinérant de Catégories @ Université du Littoral Côte d'Opale (Calais).
- 02/2015 Masterclass : K-théorie topologique et applications @ Université de Strasbourg.
- 01/2015 Séminaire du projet ANR HOGT @ Université Lille 1.
- 10/2014 Colloque 2014 du GDR Topologie Algébrique et Applications @ Université Blaise Pascal.
- 09/2014 Colloque de clôture du projet ANR HOGT @ Université de Nice.
- 09/2014 Espaces des lacets en géométrie et topologie @ Université de Nantes.
- 06/2014 Young Topologists Meeting 2014 @ Københavns Universitet.
- 05/2014 Young Mathematicians Colloquium @ Université Lille 1.
- 01/2014 Séminaire du projet ANR HOGT @ Université Lille 1.
- 09/2013 Gelfand Centennial Conference: A View of 21st Century Mathematics @ Massachusetts Institute of Technology.
- 05/2013 Conference in Algebra and Topology celebrating Lionel Schwartz's sixtieth birthday @ Université de Nantes.

(*. Future) .