Najib Idrissi

Curriculum Vitæ

Université Paris Diderot - IMJ-PRG 8 place Aurélie Nemous F-75013 Paris, France ☎ (+33) 01 57 27 91 16 ⋈ najib.idrissi-kaitouni@imj-prg.fr ㎡ idrissi.eu/en March 4, 2019

Career

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

02/2018–08/2018 **Postdoctoral researcher**, *ETH Zürich / D-MATH*, Zürich, Switzerland. Supervisor: Thomas Willwacher. Funded by ERC StG 678156–GRAPHCPX.

09/2015-01/2018 **Doctorate in Mathematics**, Université Lille 1 / Laboratoire Paul Painlevé, Lille, France.

Thesis defended on November 17th, 2017. Advisor: Benoit Fresse.

Title: Operadic Formality and Homotopy of Configuration Spaces.

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

Ranked 1st on the "INFO" competitive entrance exam.

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, Massachusetts Institute of Technology.

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.

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- 2018–2019 Elementary Algebra and Analysis I, L1 MIASHS (lecture+exercises); Elementary Algebra and Analysis II, L1 Chemistry (exercises)
 2017–2018 Calculus I, L1 MASS (exercises); Fundamental mathematics I, L1 SESI (oral exams & tutoring)
- 2016–2017 Matrix calculus, L2 econ-management (exercises); Calculus I, L1 econ-management (exercises); Calculus I, L1 MASS (exercises)
- 2015-2016 Fundamental mathematics II, L1 SESI (exercises)

Funding

- 2019 Exploratory Project, First Support "Young Researcher" (PEPS JCJC), CNRS / Insmi, 3500 €
- 2015-2018 Specific doctoral contract "normalien", École Normale Supérieure de Paris
 - 05/2016 Oberwolfach Leibniz Graduate Students (for "Factorization Algebras and Functorial Field Theories")

Service

- Since 10/2018 **One of the organizers of the Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*, Paris, France.
 - ongoing Writing of abstracts for Zentralblatt MATH.
 - ongoing Peer review.

Algebraic & Geometric Topology, Communications in Mathematical Physics, Letters in Mathematical Physics, Royal Society of Edinburgh: Proceedings A, Selecta Mathematica

- 2019 **Organization of reading 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 organizer of the PhD students' seminar**, *Laboratoire Paul Painlevé*, Lille, France.

Talks

Invited

- 05/2019* **Higher Homotopy Algebras in Topology**, *Max Planck Institute for Mathematics (MPIM)*, Bonn, Germany.

 TBA
- 01/2019 **Higher Structures**, Centre international de rencontres mathématiques (CIRM), Luminy, France. Configuration spaces and operads
- 06/2018 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

- 05/2018 **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**, *Institut des Hautes Études (IHET)*, Tunis, Tunisia. The Lambrechts-Stanley Model of Configuration Spaces

Contributed

07/2017	Young Topologists Meeting 2017, Stockholm University + Royal Institute of Technology (KTH), Stockholm, Sweden. The Lambrechts-Stanley Model of Configuration Spaces
02/2017	Conference for Young researchers in homotopy theory and categorical structures, Max Planck Institute for Mathematics (MPIM), Bonn, Germany. The Lambrechts-Stanley Model of Configuration Spaces
10/2016	2016 Meeting of the GDR Algebraic Topology and Applications , <i>Université de Picardie Jules Verne – LAMFA</i> , Amiens, France. The Lambrechts-Stanley Model of Configuration Spaces
	Seminars
12/2018	Stockholm Topology Seminar , Stockholm University + Royal Institute of Technology (KTH), 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, University of Regina, 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 , <i>Université Paul Sabatier</i> , Toulouse, France. Espaces de configuration de variétés compactes
10/2017	Singular Spaces Geometry Seminar, <i>Université Lille</i> 1, Lille, France. Introduction à la théorie de l'homotopie rationnelle
10/2017	Singular Spaces Geometry Seminar , <i>Université Lille</i> 1, 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, Université Paris 13, 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 , <i>IMJ-PRG</i> , Paris, France. L'opérade Swiss-Cheese et le centre de Drinfeld

- PhD students' seminar, Université Lille 1 Laboratoire Paul Painlevé, Lille, France. 12/2015 **Opérades** 12/2015 PhD students' seminar, Université de Picardie Jules Verne - LAMFA, Amiens, France.
- 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
- 09/2015 **Topology Seminar**, Université Lille 1 – Laboratoire Paul Painlevé, Lille, France. L'opérade Swiss-Cheese et le centre de Drinfeld

Future)

06/2015

Opérades

Conferences, workshops and thematic schools attended

05/2019* Higher Homotopy Algebras in Topology @ Max Planck Institute for Mathematics (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 (Paris-Saclay) 10/2018 New trends in K-theory and homotopy theory – A conference in honor of Max Karoubi's 80th birthday @ Institut Henri Poincaré (Paris) 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 (Toronto) 05/2018 Graph Complexes, Configuration Spaces and Manifold Calculus @ University of British Columbia (Vancouver) 01/2018 Rational Homotopy and its Applications @ Université de Lille Colloque 2017 du GDR Topologie Algébrique @ Université Paris 7 10/2017 10/2017 Séminaire Itinérant de Catégories @ Université du Littoral Côte d'Opale (Calais) 09/2017 Journée des doctorants du Nord-Pas-de-Calais @ Université du Littoral Côte d'Opale (Calais) 07/2017 Workshop on Persistent Homology @ Université de Montpellier 07/2017 Young Topologists Meeting 2017 @ Stockholm University + Royal Institute of Technology (KTH) 06/2017 Algebraic Topology and Representation Theory @ Université de Lille 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 @ Max Planck Institute for Mathematics (MPIM Bonn) Conference in the honour of Saïd Zarati @ IHET (Tunis) 10/2016 10/2016 Colloque 2016 du GDR Topologie Algébrique et Applications @ Université de Picardie Jules Verne (Amiens) 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

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 (Clermont-Ferrand)
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)