

# 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  
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### Career

- 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.  
Funded by an *Allocation Spécifique* of the ENS. Thesis defended on November 17th, 2017.  
Advisor: Benoit Fresse. Title: *Operadic Formality and Homotopy of Configuration Spaces*.
- 09/2011–08/2015 **Élève**, École Normale Supérieure de Paris, Paris, France.  
Ranked 1<sup>st</sup> 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] N. I. “The Lambrechts–Stanley Model of Configuration Spaces”. In: *Invent. Math* (2018). In press. ISSN: 1432-1297. DOI: 10.1007/s00222-018-0842-9. arXiv: 1608.08054.
- [2] N. I. “Swiss-Cheese operad and Drinfeld center”. In: *Israel J. Math* 221.2 (2017), pp. 941–972. ISSN: 1565-8511. DOI: 10.1007/s11856-017-1579-7. arXiv: 1507.06844.

#### Preprints

- [3] N. I. *Formality of a higher-codimensional Swiss-Cheese operad*. Preprint. 40 p. Sept. 20, 2018. arXiv: 1809.07667.
- [4] Ricardo Campos, Julien Ducoulombier, N. I., and Thomas Willwacher. *A model for framed configuration spaces of points*. Preprint. 27 p. July 22, 2018. arXiv: 1807.08319.
- [5] N. I. *Curved Koszul Duality for Algebras over Unital Operads*. Preprint. 32 p. May 4, 2018. arXiv: 1805.01853.
- [6] Ricardo Campos, N. I., Pascal Lambrechts, and Thomas Willwacher. *Configuration Spaces of Manifolds with Boundary*. Preprint. 107 p. Feb. 2, 2018. arXiv: 1802.00716.

#### Other documents

- [7] N. I. “Formalité opéradique et homotopie des espaces de configuration”. PhD thesis. Université de Lille, Nov. 17, 2017. 173 pp. URL: <http://ori.univ-lille1.fr/notice/view/univ-lille1-ori-455595>.
- [8] N. I. “Opérades et Structures Commutatives à Homotopie Près”. In: *Graduate J. Math* 1.1 (2016), pp. 9–17. URL: <http://www.gradmath.org/article/opérades-et-structures-commutatives-a-homotopie-pres/>.
- [9] N. I. “Homologie et complexes de déformations d’opérades  $E_n$ ”. MA thesis. Université Paris Diderot, 2014.

### Teaching

- 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)

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## Grants

2019 **Exploratory Project, First Support “Young Researcher” (PEPS JCJC)**, Insmi, CNRS, 3500 €.

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## Service

2018–... **One of the organizers of the Topology Seminar**, *Institut de Mathématiques de Jussieu-Paris Rive Gauche*, Paris, France.

2018–... **Writing of abstracts for Zentralblatt MATH.**

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.

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## Talks

### Invited

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**, *MPIM Bonn*, Bonn, Germany.  
The Lambrechts–Stanley Model of Configuration Spaces

10/2016 **2016 Meeting of the GDR Algebraic Topology and Applications**, *Université de Picardie Jules Verne – LAMFA*, 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**, *IMJ-PRG*, 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**, *Université de Nantes*, Nantes, France.  
Espaces de configuration de variétés compactes

- 12/2017 **Algebra and Topology seminar**, *Université de Strasbourg*, Strasbourg, France.  
Espaces de configuration de variétés compactes
- 11/2017 **Mathematical Physics and Algebraic Topology Seminar**, *Université d'Angers*, 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.  
Introduction à la théorie de l'homotopie rationnelle
- 10/2017 **Singular Spaces Geometry Seminar**, *Université Lille 1*, Lille, France.  
L'opérade Swiss-Cheese et le centre de Drinfeld
- 08/2017 **Talks in mathematical physics**, *ETH Zürich*, Zürich, Switzerland.  
Configuration Spaces of Compact Manifolds
- 05/2017 **Singular Spaces Geometry Seminar**, *Université Lille 1*, Lille, France.  
Le modèle de Lambrechts–Stanley des espaces de configuration
- 05/2017 **Singular Spaces Geometry Seminar**, *Université Lille 1*, 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**, *Université Lille 1*, Lille, France.  
Le modèle de Lambrechts–Stanley des espaces de configuration
- 06/2016 **Talks in Mathematical Physics**, *ETH Zürich*, 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
- 12/2015 **PhD students' seminar**, *Université Lille 1 – Laboratoire Paul Painlevé*, Lille, France.  
Opérades
- 12/2015 **PhD students' seminar**, *Université de Picardie Jules Verne – 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
- 09/2015 **Topology Seminar**, *Université Lille 1 – Laboratoire Paul Painlevé*, Lille, France.  
L'opérade Swiss-Cheese et le centre de Drinfeld

(\*: Future)

## Conferences, workshops and thematic schools attended

- 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  
 10/2017 Colloque 2017 du GDR Topologie Algébrique @ Université Paris 7  
 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 @ 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 (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  
 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 (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)