

# Najib Idrissi

## Curriculum Vitæ

Université Paris Diderot – IMJ-PRG  
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### Career

- 09/2018– **Maître de conférences**, Université Paris Diderot / Institut de Mathématiques de Jussieu-Paris Rive Gauche, Paris, France.  
(= permanent faculty position, rank B)
- 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: Benoît 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 pages. 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 pages. July 22, 2018. arXiv: 1807.08319.
- [5] N. I. *Curved Koszul Duality for Algebras over Unital Operads*. Preprint, 32 pages. May 4, 2018. arXiv: 1805.01853.
- [6] Ricardo Campos, N. I., Pascal Lambrechts, and Thomas Willwacher. *Configuration Spaces of Manifolds with Boundary*. Preprint, 107 pages. 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. 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/operades-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)

## Service

- ongoing **Peer reviews.**  
Algebr. Geom. Topol.; Comm. Math. Phys.; Lett. Math. Phys.; Proc. Edinb. Math. Soc.; Proc. Roy. Soc. Edinburgh Sect. A
- ongoing **Writing of abstracts for Zentralblatt MATH.**
- ongoing **One of the organizers of the Topology Seminar, Institut de Mathématiques de Jussieu-Paris Rive Gauche, Paris, France.**  
Webpage: [www.imj-prg.fr/spip.php?article67](http://www.imj-prg.fr/spip.php?article67)
- 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

- 01/2019\* **Higher Structures, Centre international de rencontres mathématiques (CIRM), Luminy, France.**  
TBA
- 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

### 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

### 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

(\*: 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)