

Jens Jakob Kjaer

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EDUCATION

University of Notre Dame

- Expected to receive PhD-degree, August 2019
- Accepted into Graduate program, August 2014

University of Copenhagen

- *Master of Science*, Mathematics, June 2014
Thesis: "The Kahn-Priddy Theorem"
 - <https://www3.nd.edu/~jkjaer/Master.pdf>
- *Bachelor of Science*, Mathematics, June 2011
Thesis: "Duality theorems for simplicial complexes"
 - www.math.ku.dk/~moller/students/jens_jakob_kjaer_bach.pdf

INVITED PRESENTATIONS

- *Some ν_1 -periodic unstable homotopy groups through calculus*, University of Virginia Topology Seminar, University of Virginia, October 2018
- *Some ν_1 -periodic unstable homotopy groups through calculus*, Young Topologist Meeting 2018, University of Copenhagen, July 2018
- *The Homology of Algebras over the Lie Operad*, Ohio State University Homotopy Theory Seminar, The Ohio State University, November 2017
- *Cooperadic Structure on the Bar Construction of a Spectral Operad*, Young Topologist Meeting 2017, KTH Royal Institute of Technology, July 2017
- *The Homology of Algebras over the Lie Operad*, Young Topologist Meeting 2016, University of Copenhagen, July 2016

RESEARCH ARTICLES AND PREPRINTS

On the Odd Primary Homology of Free Algebras over the Spectral Lie Operad, J. Homotopy Relat. Struct. (2017). <https://doi.org/10.1007/s40062-017-0194-y>

TEACHING EXPERIENCE

University of Notre Dame, Notre Dame, IN, USA

- Instructor — Calculus 1 (Fall 2016)
- Teaching Assistant — Calculus 1 (Fall 2015), Introduction to Linear Algebra and Differential Equations (Spring 2016), Calculus B (Spring 2017)
- Directed Reading for undergrads — Graph Theory (Spring 2018), Game Theory (Fall 2018)

University of Copenhagen, Copenhagen, Denmark

- Teaching Assistant — Analyses 2, Algebra 1, Linear Algebra and Geometry 1 (September 2012 - July 2013); Algebra 2 (April 2014-Juni 2014)

Københavns Åbne Gymnasium, Copenhagen, Denmark

- Årsvikar (August 2011 - June 2012)

- Taught various topics in mathematics to 16-19 year olds in high school, were responsible for two classes, as well as mentoring nine students.

Other

President for the Math Graduate Student Association at Notre Dame (MGSA) for the academic year 2017-2018

- Democratic organization of Notre Dame's math grad students. Which works to ensure good studying and working conditions for students, serves as a point of contact for the department
- Helped the department organize the visit weekend for prospective students, March 2018.

Co-organized the Math Graduate Seminar with J.D. Quigley, Fall 2016 through Fall 2018.

- <https://www3.nd.edu/~jquigle2/GSTS.html>

CONFERENCES AND MASTERCLASSES ATTENDED

Midwest Topology Seminar

- Spring 2018, Indiana University, April 2018, http://www.math.wayne.edu/~rrb/MTS/archive/MTS_S18/MTSS18.html
- Winter 2018, Northwestern University, March 2018, http://www.math.wayne.edu/~rrb/MTS/archive/MTS_W18.html
- Fall 2017, Wayne State University, November 2017, <http://www.clas.wayne.edu/disaksen/Midwest-Topology-Seminar-Fall-2017>
- Spring 2017, University of Chicago, May 2017, <http://math.uchicago.edu/~algtop/midwest/>
- Fall 2016, Purdue University, September 2016, <https://sites.google.com/site/jeremykennethmiller/midwestfall2016>
- Spring 2016, The Ohio State University, May 2016, <http://nilesjohnson.net/MTS/>
- Winter 2016, Northwestern University, February 2016, <http://math.northwestern.edu/~pvankoug/MTS/index.html>
- Fall 2015, Wayne State University, October 2015, <http://www3.nd.edu/~mbehren1/MTSfall2015/>
- Spring 2015, University of Chicago, May 2015, http://www.math.wayne.edu/~rrb/MTS/archive/MTS_S15/MTS_S15.html
- Winter 2015, University of Illinois, Chicago, February 2015, <http://www.math.northwestern.edu/~pgoerss/midwest14/>
- Fall 2014, Northwestern University, October 2014, <http://www.math.northwestern.edu/~pgoerss/midwest14/>

West Coast Algebraic Topology Summer School

- University of Oregon, August 2016, <https://www.pims.math.ca/scientific-event/160808-wcatss>
- University of Oregon, August 2015, <http://wcatss15.wikispaces.com/>

Young Topologist Meeting

- University of Copenhagen, July 2018, <https://www.math.ku.dk/english/research/conferences/2018/ytm2018/>
- KTH Royal Institute of Technology, July 2017, <https://www.math-stockholm.se/en/konferenser-och-akti/young-topologists-meeting-2017-1.670396>
- University of Copenhagen, July 2016, <http://www.math.ku.dk/english/research/conferences/2016/ytm2016/>
- University of Copenhagen, July 2014, <http://www.math.ku.dk/english/research/conferences/2014/ytm2014/>
- École polytechnique fédérale de Lausanne, July 2013, <http://gr-he.epfl.ch/ytm2013>

- University of Copenhagen, July 2012, <http://www.math.ku.dk/english/research/conferences/ytm2012/>

Higher structures in homotopy theory workshop, Isaac Newton Institute, July 2018

- <https://www.newton.ac.uk/event/hhhw01>

Workshop on Infinity-Operads and Applications, Universität Osnabück July 2017

- <http://userpage.fu-berlin.de/jcirici/infinityoperads/>

Talbot 2017: Obstruction theory for structured ring spectra - Mentored by Maria Basterra and Sarah Whitehouse, MIT, May 2017

- <http://math.mit.edu/conferences/talbot/>

Summer School on Algebraic K -theory and Trace Methods, University of Regensburg, August 2015

- http://www-cgi.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/Summer_School:_Algebraic_K-theory_and_Trace_Methods

The European Talbot Workshop 2015 - Invariants of Structured Ring Spectra with Bjørn Ian Dundas and Birgit Richter, École polytechnique fédérale de Lausanne, June-July 2015

- <http://hessbellwald-lab.epfl.ch/talbot15>

2015 Münster Functor Calculus Workshop, Westfälische Wilhelms-Universität Münster, June 2015

- <https://sites.google.com/site/2015muenstercalculus/>

2015 Lehigh University Geometry and Topology Conference in honor of Don Davis, Lehigh University, May 2015

- <http://www.lehigh.edu/~dlj0/geotop.html>

Graduate Student Topology and Geometry Conference 2015, March 2015

- <http://www.math.illinois.edu/gstgc2015/>

Spring School on Algebraic K -theory of Topological Algebras, University of Regensburg, March 2015

- http://www-cgi.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/Spring_School:_Algebraic_K-theory_of_Topological_Algebras

Equivariant stable homotopy theory, Copenhagen University, August 2013

- <http://www.math.ku.dk/english/research/conferences/group.actions2013/>