

CURRICULUM VITAE

Jonathan Andrew Scott

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Current Affiliation: Department of Mathematics and Statistics, University of Ottawa

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Education

2000 Ph.D. in Mathematics, University of Toronto. Supervisor: Steve Halperin.

1994 M.Sc. in Mathematics, University of Toronto.

1993 B.Sc. (Honours) in Mathematical Physics, Queen's University at Kingston.

Research Interests

Operads, category theory, E_∞ algebras, cohomology operations, loop space homology, Bockstein spectral sequence.

Publications

1. K. Hess, P.-E. Parent, and J. Scott, *A chain coalgebra model for the James map*, Homology, Homotopy Appl. **9** (2007) 209–231, arXiv:math.AT/0609444.
2. K. Hess, P.-E. Parent, J. Scott, and A. Tonks, *A canonical enriched Adams-Hilton model for simplicial sets*, Adv. Math. **207** (2006) 847–875, arXiv:math.AT/0408216.
3. J. Scott, *Hopf algebras up to homotopy and the Bockstein spectral sequence*, Algebr. Geom. Topol. **5** (2005) 119–128, arXiv:math.AT/0412207.
4. J. Scott, *A torsion-free Milnor-Moore theorem*, J. London Math. Soc. (2) **67** (2003) 805–816, arXiv:math.AT/0103223.
5. J. Scott, *Algebraic structure in the loop space homology Bockstein spectral sequence*, Trans. Amer. Math. Soc. **354** (2002) 3075–3084, arXiv: math.AT/9912106.
6. J. Scott, *A factorization of the homology of a differential graded Lie algebra*, J. Pure Appl. Alg. **167** (2002) 329–340.

Submitted Manuscripts

1. K. Hess and J. Scott, *Homotopy morphisms and Koszul resolutions of operads*
2. K. Hess, P.-E. Parent, and J. Scott, *Co-rings over operads characterize morphisms*, arXiv:math.AT/0505559.

Employment

- 08/2006 – present** Post-Doctoral Assistant, University of Ottawa. Supervisor: Paul-Eugène Parent
- 10/2004 – 07/2006** Post-Doctoral Fellow, EPFL, Switzerland. Supervisor: Kathryn Hess.
- 08/2003 – 07/2004** Post-Doctoral Fellow, University of Regina, Canada. Supervisor: Donald Stanley.
- 02/2003 – 07/2003** Attaché Temporaire d’Enseignement et de Recherche, Université de Lille I, France.
- 12/2002 – 01/2003** TMR Post-Doctoral Fellow, Universidad de Málaga, Spain.
- 06/2002 – 11/2002** TMR Post-Doctoral Fellow, Université de Nice Sophia-Antopolis, France.
- 09/2000 – 05/2002** NSERC Post-Doctoral Fellow, University of Aberdeen, Scotland.

Teaching Experience

Instructor

- *Calculus III for Engineers*, University of Ottawa, autumn 2007.
- *Introduction to Topology*, University of Ottawa, winter 2007.
- *Algèbre linéaire I*, University of Ottawa, autumn 2006.
- *Opérades*, École Doctorale EPFL, 2005.
- *Mathématiques finies*, University of Regina, 2004.
- *Calculus for the social and management sciences*, University of Regina, 2003
- *Mechanics*, University of Aberdeen, co-lecturer along with J. Hubbuck, 2001
- *Linear algebra for computer science*, University of Toronto, 1999
- *Calculus for science*, University of Toronto, 1998

Supervisor

- various semester projects in elementary mathematics, Haute École Pédagogique, Lausanne, 2005–2006
- third-year semester projects:
 - Ana Devic, *Le théorème de Milnor-Moore*
 - Julian Kellerhals, *Le théorème d’Hurewicz*
 - Vanny Bernasconi, *Catégories*, EPFL
- second-year mini-project, *Les suspensions et les espaces de lacets (Suspensions and loop spaces)*, EPFL

Conference organization

- Co-organizer of the Alpine Operads Workshop, Villars, Switzerland, March 2006.

Honours

- Visiting Lecturer, Université d'Angers, May 2002
- Visiting Lecturer, Université d'Angers, January 2001
- 2000 Canada–UK Millennium Research Award
- National Sciences and Engineering Research Council of Canada, Post-Graduate Studies Fellowship, 1993–1995
- St. Andrews Exchange Scholar, St. Andrews University, UK, 1991–1992

Presentations

Invited Conference Talks

- *Iterating the cobar construction via operads*, University of Ottawa Octoberfest 2006, October 21, 2006.
- *Cell E_∞ -algebra models for loop space cohomology*, Thirty-fourth meeting of the Transpennine Topology Triangle, May 20, 2002, University of Sheffield.
- *The Eilenberg-Moore spectral sequence and conjectures of Anick and McGibbon-Wilkerson*, Modern Homotopy Theory Meeting, January 2002, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.
- *A p -local Milnor-Moore theorem for loop space homology modulo torsion*, First Joint Meeting of the Belgian and German Mathematical Societies, Special Session on Algebraic Topology, June 8–10, 2001, Université de Liège.
- *Hands-on algebraic topology*, Fields Institute, March 1998, Toronto.

Contributed Conference Talks

- *The category of Lie-infinity algebras via co-rings over operads*, Ontario Topology Seminar, July 31, 2007, Fields Institute, Toronto.
- *Bimodules over operads: encoding deep structure of morphisms*, Streetfest conference in honour of Ross Street's sixtieth birthday, July 11–16, 2005, Macquarie University, Sydney.
- *Algebraic structure of the loop space homology Bockstein spectral sequence*, JAMI conference, Recent Progress in Homotopy Theory, March 17–26, 2000, Johns Hopkins University, Baltimore.
- *Torsion in loop space homology*, Algebraic Topology Meeting, September 1998, Université d'Angers, France.

Miscellaneous

Citizenships Canadian, British

Languages English, French

Memberships American Mathematical Society