

# Curriculum Vitae for Jessica M. H. G. Carter

## Personal information

**1968** Born on November 27 in Sweden.

## Education

**1987-1994** Studies in mathematics (main subject) and philosophy at Odense University.

**1994** Cand. Scient. from Odense University on the basis of the thesis: “Epsilon-controlled  $K$ -theory as an inverse system”.

**1997-1998** Visiting Scholar at Stanford University, California, USA, July 97-January 98.

**1999-2002** Ph.d student at the Department for Mathematics and Computer Science, University of Southern Denmark. Financed by Center for Educational Development in University Science, (DCN).

**2001** Visiting Scholar at the Department of Philosophy, University of California, Berkeley, USA, January-July.

**2002** Ph.D in mathematics on the basis of the thesis “Ontology and Mathematical Practice”, November.

## Employments

**1994-1999** Various teaching positions at high-schools (gymnasie, VUC) and at the University of Southern Denmark.

**1999-2002** Ph.d student at the Department for Mathematics and Computer Science, University of Southern Denmark.

**2002** Research assistant at the Department for Mathematics and Computer Science, University of Southern Denmark.

**2003-2005** Research assistant (Amanuensis) at the Department of Curriculum Studies, Danish University of Education, August-January.

**2005-2008** Assistant Professor at the Department for Mathematics and Computer Science, University of Southern Denmark.

**2008-** Associate Professor at the Department for Mathematics and Computer Science, University of Southern Denmark.

## Selection of invited talks

- “Matematikkens ontologi belyst ved en historisk case: K-teori”, seminar at IMF-UFA, Roskilde University, September 20, 2001.
- “Questions in the Philosophy of Mathematics Illuminated by a Historical Case”, Workshop arranged by Max Planck Institute for the History of Science, Berlin, February 28 -March 2, 2002.
- “Realism and Mathematical Practice” Annual Philosophy of Science Meeting in Dubrovnik April 19 -24, 2004.
- “Categories for the Working Mathematician: Making the Impossible Possible” The Impact of Categories: Historical and Philosophical Aspects, held at ENS, Paris October 10-14, 2005.
- “Is Structuralism viable as a philosophy of mathematical practice?” at the meeting ‘Structuralism’ at REHSEIS, Université VII Paris, November 14 - 15, 2005.
- “Visualization and Understanding”, at the conference MACAS 2, University of Southern Denmark, May 29, 2007.
- “The role of representations in mathematical reasoning” at Workshop at the University of Seville, Spain, June 16-17, 2008.
- ‘The role of category theory in contemporary mathematics’ at Mini Workshop in Oberwolfach February 19, 2009.
- ‘Understanding, representations and visualisation’ at Tappenden PhilMath Workshop held at REHSEIS, Paris June 10, 2010.
- ‘Diagrams in Analysis’ at meeting in Nancy organized by the PratiScienS group between June 21 and 23, 2010.
- ‘Introduction of objects: Context and representations’ at The History of modern mathematics 1800-1930 held in Xi’an August 12, 2010.
- Invited to ”Numerical Cognition and Mathematical Ontology”, Workshop at ECAP 7, Milan 2011.
- Invited to “Philosophy of Mathematical Practice, Southern Cone Colloquium XV”, in Salvador, Brasil 2011.

## Research communication

- “Grundlagsskolerne” and “Realismedebatten”, course in philosophy of mathematics for high school teachers, Storebæltcenteret, Nyborg October 22, 2003.

- “Erfaringer med FVU”, at annual meeting for FVU mathematics teacher association, Middelfart May 6, 2004.
- “Videnskabsteori mm. i den nye gymnasiereform”, Sct. Knuds Gymnasium (High school in Odense) May 10, 2006.
- “Matematikkens filosofi i lyset af matematikkens praksis”, (Symposium) Department of Philosophy, University of Southern Denmark November 23, 2006.
- “Hvad er matematik?” Talk given at N. Zahles seminarium, Copenhagen October 3, 2008.
- “Introduction to Philosophy of Science”. At Mærsk Mc-Kinney Instituttet, SDU October 2009, and November 2010.
- 2 UNF-foredrag in 2010 (‘Videnskabsteoretiske spørgsmål -belyst ud fra naturvidenskabelige eksempler’ and ‘Fordomme om matematik’)

## Research and Administrative Experiences

- 2002** Joint organiser and referee for the conference: “Mathematics Education and Society 3”, held in Helsingør 2.-7. April.
- 2002** Joint organiser “Nye veje i Naturvidenskabsundervisningen på Universitetsniveau”, held 23.-24. of May in Helsingør.
- 2005-** Referee, Synthese
- 2005-** Head of Committee developing a course on the philosophy of Science for Science and Mathematics students at SDU.
- 2005, 2006** Judge for the communication-competition, Herbert, for Science students at SDU.
- 2009** One of 9 founders of ‘Association of Philosophy of Mathematical Practice’, see <http://institucional.us.es/apmp/index.html>
- 2010-** Referee, Philosophia Mathematica, Philosophia Scientiae
- 2010-** Secretary for the ‘Association of Philosophy of Mathematical Practice’.
- 2010-** Member of the board of ‘Philosophy of Mathematics Association’ launched in December 2010.

## Teaching

**2005-** National external examiner in Mathematics

**2006-** National external examiner in Philosophy

**Selection of subjects taught:** Calculus, Linear Algebra, Algebra, History of Mathematics, Philosophy of Mathematics, Logic, Modelling and Statistics.