# Sylvain Carpentier

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## Research Interests

Mathematical physics, integrable systems, noncommutative algebra.

Emplo	yment
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-Senior Researcher at <b>QSMS</b> , Seoul National University -Simons postdoctoral research scientist at <b>Columbia University</b>	current 07/2017-06/2021
Education -Graduate student at the Massachusetts Institute of Technology, Cambridge MA, supervised by Victor Kac -Master of mathematics at Universite Paris Orsay -Student of the Ecole Normale Superieure de Paris	2013-2017 2011-2012 2009-2013
Diplomas and Awards - PhD in Mathematics, Massachusetts Institute of Technology - Johnson Prize for best graduate mathematical paper of the year at MIT A sufficient condition for a Rational Differential Operator to generate an Integrable System	06/2017 05/2017
Selected Talks -Seoul National University, QSMS seminar - Kolchin seminar, City University of New York -Seoul National University, QSMS seminar - MIT Infinite dimensional algebra seminar, -Bologna university, -Université d'Angers, -Seoul National University, -Geometric and automorphic aspects of W algebras, Lille 3 -University of Glasgow, integrable system seminar -University of Kent, Canterbury, - DART IX, University of Leeds - Seminar of Mathematical physics, University of Columbia - Kolchin seminar, City University of New York Graduate Center - University of Kent, Canterbury - MIT Infinite dimensional algebra seminar, PhD defense - SISSA, Trieste	06/2023 $09/2022$ $04/2022$ $03/2022$ $06/2021$ $03, 05/2021$ $12/2020$ $05/2019$ $04/2019$ $04/2019$ $08/2018$ $04  and  11/2018$ $09/2017$ $07/2017$ $04/2017$ $07/2016$
Conferences and research visits  - Poisson and quantum structures in Integrable systems at University of Leeds  - QSMS summer workshop at Yangpyeong  - DART IX at University of Leeds  - Representation Theory, Mathematical Physics and Integrable Systems at CIRM,	05/2023 07/2023 08/2018 06/2018

## Luminy, France

Edillity, Trailee	
- University of kent, UK, visiting J.P. Wang and A. Mikhailov	07/2017
- Geometry and Representation Theory, Schrodinger Institute, Vienna	01/2017
-SISSA, Trieste, visiting V. Kac and B. Dubrovin	07/2016
- Perspectives in Lie Theory, Centro de Giorgi, Pisa	01/2015
-Universita di la Sapienza, Rome, visiting Alberto De Sole	05-07/2014
-IHES, Bures sur Yvette, France	2012/2013
-Algebraic Structures in Integrable Systems at Moscow State University,	12/2012

## Teaching

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-Calculus II at Columbia University,	Fall 2018
-Teaching assistant for linear algebra at MIT,	2016/2017
- Undergraduate Research mentor at MIT,	Summer 2015
-Teaching assistant for mathematiques I at Paris 7	Fall 2013

## Languages

French (native), English (fluent), Spanish (proficient), Korean (my objective is to get TOPIK 4 or better this summer)

## Other interests

Concert pianist. 1st prize in the outstanding a mateur piano competition in Paris (2013). Played with the Boston pops or chestra in 2017.