Curriculum vitae for LUCA BRANDT

Research area: Fluid dynamics. Multiphase and particle-laden flows. Hydrodynamics stability and flow control. Numerical simulations. Bio and complex fluids.

	Academic Career		
2012-	Professor in Fluid Mechanics,		
	Royal Institute of Technology, (KTH), Stockholm, Sweden		
2009-2012	Associate Professor in Fluid Mechanics, KTH Mechanics, Stockholm		
2008-2014	Senior researcher of Swedish Research Council, KTH Mechanics		
2004-2008	Research Associate at KTH Mechanics		
2005	"Chargé de Recherce" CNRS, Ecole Polytechnique, France (3 months)		
	Education		
2008	Docent in Fluid Mechanics, KTH Mechanics, Stockholm		
2003	PhD in Fluid Mechanics, KTH Mechanics, Stockholm.		
	Numerical studies of bypass transition in the Blasius boundary layer.		
	Supervisor: Prof. D. S. Henningson		
1997	Master degree in Mechanical Engineering, University of Rome		
	"La Sapienza", Italy. Grade: 110/110 with honors		
	Positions held		
2018-	International Chair, Department of Energy and Process Engineering		
	Faculty of Engineering, NTNU, Norway		
2017-	Adjunct Professor, University of Bologna, Italy		
2016-17	Chairman of the review Panel in Mechanical Engineering of Swedish		
	Research Council		
2016-	Editorial Board Member for Open Access Journal: ChemEngineering		
2015-	Associate Editor for <i>European Journal of Mechanics - B/Fluids</i>		
2015-	Associate Editor for <u>MECCANICA</u>		
2015-	Advisory board for Ercoftac journal Flow, Turbulence and Combustion		
2014-	Management group of the EU Cost Action: Flowing Matter		
2013-2018	Member of the European Fluid Mechanics Conference Committee		
	(EFMCC), managed by Euromech		
2013-14	Deputy head of Department of Mechanics, KTH		
2013-	Member of the Editorial Board of		
	Theoretical and Applied Mechanics Letters		
2012-2014	Director of studies for Fluid Mechanics courses at KTH		
2008-2017	Director of studies Linné FLOW Centre graduate school		
2006-	Member of Management Group of Linné FLOW Centre at KTH		
	Prizes and awards		
2014	Outstanding young Researcher, from Swedish Research Council		
	(VR): 9 in all areas of natural and engineering sciences		
2013	ERC Consolidator Grant TRITOS, from April 2014		
2008	Awarded the Senior Researcher Position (Rådsforskartjänt) from the		
	Swedish Research Council (VR) in Mechanics.		
	It was the first time a position in Applied Mechanics was announced in		
	Sweden. This implies full financial support for six year.		
2006	Awarded the Göran Gustafsson Fellowship for young researchers		

Publications

106 Journal papers (7 in *Physical Review Letters*, **41** in *Journal of Fluid Mechanics*, **19** in *Physics of Fluids*, 1 *Journal Royal Society Interface*, 5 *Physical Review E*, 6 invited papers after conference presentations) **2** Review papers in 2014 *Bibliometry:*

Google scholar	Citations:	4202	2865 (since 2013)
	h-index	36	31 (since 2012)
	i10-index	75	72 (since 2012)

Supervision-POSTDOCTORAL STUDENTS (8)

Jan 2011 - Dec 2012	Ruth Lambert.
Feb 2011 - Sept 2013	Gaetano Sardina.
Sept 2011 - Sept 2013	Francesco Picano.
Sept 2012 - Sept 2013	Luca Biancofiore (Göran Gustafsson fellow).
Aug 2013 - Mar 2015	Cecilia Rorai (Göran Gustafsson fellow).
Apr 2014- July 2015	Arghya Samanta (Wenenr GRen fellow)
Jan 2015- Dec 2016	Ekaterina Ezhova
Mar 2015-Oct 2016	Jean-Christophe Loiseau
Nov 2016-	Marco Rosti
Feb 2017-	Francesco De Vita
Cumamilation DOOT	

Supervision – DOCTORAL STUDENTS WHO GRADUATED (5+1)

- Nov 2010 Lars-Uwe Schrader.
- Dec 2013 Joy Klinkenberg (double Degree with TU/Eindhoven).
- Mar 2014 Lailai Zhu.
- Dec 2015 Iman Lashgari
- Dec 2017 Walter Fornari
- June 2014 Caj-Juan Zhan, Licentiate degree (Scholarship from Chinese Science Council)

Supervision – DOCTORAL STUDENTS AT PRESENT BEING SUPERVISED (10)

Mehdi Niazi, Arash Alizad, Sagar Zade, Hamid Tabaei, Dhiya Alghaliby, Anthony Ge, Erik Stenberg, Ali Yousefi, Nicolo Scapin, Armin Sharmadi

Co-advisor of 5 PhD students

Advisor for the Diploma Thesis works at KTH Mechanics of more than 20 students.

Supervisor for best performed diploma work Award 2010, Bo Rydin's Foundation, Göteborg.

Main Research Grants

- 2017 PI of application for **Research Environment** from Swedish Research Council, *Hybrid multiscale modelling of transport phenomena for energy efficient processes*, 2500K€ for 6 years (18 out 222 funded)
- 2015 FET-OPEN EU Project, MicrofluSA, 700.000€ to KTH
- 2014 **VR Outstanding young Researcher**, about 2000K€ for 6 years
- 2013 ERC Consolidator Grant, TRITOS, 2000K€
- 2009 Special Researcher Position (Rådsforskartjänt) from the Swedish Research Council. 120 K€ per 6 years. First ever position in Mechanics announced in Sweden.

Other activities and merits

12 times Invited speaker at international workshops and conferences. 3 invited lectures at summer schools.

Referee for major international journals: *Physical Review Letters, Journal of Fluid Mechanics, Physics of Fluids, Physical Review E, European Journal of Mechanics/B Fluids, Europhysics Letters, Experiments in Fluids, International Journal of Heat and Fluid Flow.*

Evaluation of application for research funding from *Foundation for Fundamental Research on Matter* (FOM), the Netherlands, the *Swiss National Science Foundation*.

Member of panel for projects in Mathematics, Physical Science and Technology (FRINATEK), of the Research Council of Norway and of panel for internation post-docs of *Swedish Research Council* (VR)

Member of the Local Organising Committee of the European Turbulence Conference, ETC13, held at KTH in 2017.

Member of the Local Organising Committee of the Seventh IUTAM Symposium on Laminar-Turbulent Transition held at KTH in 2009.