

# CURRICULUM VITAE

BJÖRN OTTERSTEN

## DEGREES

Sept 1986 – Jan 1990 Doctor of Philosophy, Electrical Engineering Stanford University, Stanford CA  
Sept 1982 – June 1986 Master of Science, Applied Physics Linköping University, Sweden

## CURRENT POSITIONS

Jan 2009 – Founding Director of Interdisciplinary Centre for Security, Reliability and Trust,  
University of Luxembourg  
Jan 2009 – Professor, University of Luxembourg  
Dec 1991 – Professor of Signal Processing, Royal Institute of Technology, Stockholm, Sweden

## PREVIOUS POSITIONS

Dec 2004 – Dec 2008 Dean of School of Electrical Engineering, Royal Institute of Technology,  
Stockholm, Sweden  
Sept 2002 – Dec 2008 Guest Professor at University of Luxembourg  
Nov 1992 – Dec 2004 Chairman of the Dept. of Signals, Sensors & Systems,  
Royal Institute of Technology, Stockholm, Sweden  
July 2006 – Dec 2008 Founding Director Linnaeus Center ACCESS,  
Royal Institute of Technology, Stockholm, Sweden  
Jan 2001 – Dec 2008 Founding Director of Graduate School in Telecommunications, Sweden  
June 2000 – May 2003 Guest Professor at the Dept. of Electrical Engineering,  
Katholieke Universiteit Leuven, Leuven, Belgium  
Jan 2001 – Dec 2002 Co-founder and Director of Education at Wireless@KTH  
Nov 1991 – Dec 1991 Visiting Professor, Dept. of Electrical Engineering, Stanford University, CA

## DISTINCTIONS

2019 Best Column Award, IEEE SPS Signal Processing Magazine  
2019 FNR Award, Outstanding Scientific Publication  
2019 Best Paper Award, IEEE International Conference on Recent Advances in Signal Processing,  
Telecommunications & Computing  
2018 Group Technical Achievement Award, EURASIP  
2018 Best Paper Award, Journal on Wireless Communications and Networking  
2018 Best Paper Award, International Conference on Image and Information Processing  
2018 IEEE *Access* Best Multimedia Award  
2017 Recipient of the European Research Council Advance Research Grant  
2017 Best Paper Award, 2<sup>nd</sup> place, IEEE International Conference on Image Processing  
2015 Best Paper Award, IEEE Computer Vision and Pattern Recognition (CVPR) workshop  
2015 Best Paper Award, 10th International Conference on Cognitive Radio Oriented Wireless Networks  
2014 Cedergren Medal, H.T. Cedergren Foundation for outstanding contributions to electrical  
engineering  
2014 Satellite Communications Distinguished Service Award, IEEE Communications Society for

contribution in the field of satellite communications

- 2013 Best Paper Award, IEEE Signal Processing Society Signal Processing Letters
- 2011 Technical Achievement Award, IEEE Signal Processing Society for contributions in array signal processing and wireless communication
- 2011 Co-author of paper awarded Best Student Paper at IEEE 4th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)
- 2011 Co-author of paper awarded Best Student Paper at IEEE 7th International Symposium on Image and Signal Processing and Analysis (ISPA)
- 2010 Meritorious Service Award, EURASIP
- 2009 A first recipient of the European Research Council Advanced Research Grant
- 2009 Best Paper Award, International Conference on Wireless Communications and Signal Processing
- 2008 EURASIP Fellow for contributions to the field of signal processing
- 2007 Co-author of paper awarded First Prize for Best Student Paper at IEEE International Conference of Acoustics, Speech, and Signal Processing
- 2006 Co-author of paper awarded IEEE Signal Processing Society Young Author Best Paper Award
- 2004 IEEE Fellow for contributions to antenna signal processing and wireless communications
- 2002 Best Paper Award 5<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications
- 2001 Co-author of paper awarded IEEE Signal Processing Society Paper Award
- 1993 IEEE Signal Processing Society Paper Award

#### **ASSIGNMENTS OF IMPORTANCE**

- 2022 – IEEE Signal Processing Society Publications Board, member
- 2019 – Swedish Foundation for Strategic Research, Board member
- 2018 – Director of Technical Activities, EURASIP Board of Directors
- 2016 – Villum Foundation, Denmark, Technical and Natural Sciences Committee
- 2011 – International Advisory Comm., CominLabs – Laboratoires d'Excellence, France
- 2019 – Editorial Board of IEEE Open Journal of Signal Processing
- 2013 – Editorial Board of Foundations and Trends in Signal Processing
- 2003 – Editorial Board of EURASIP Journal on Advances in Signal Processing
- 2003 – Editorial Board of EURASIP, SIGNAL PROCESSING Journal
- 2018 – Editor-in-Chief Emeritus, SIGNAL PROCESSING Journal
- 2014 – 2018 Swedish Research Council, Board member
- 2016 – 2018 Chairman of Awards Board, IEEE Signal Processing Society
- 2013 – 2018 EURASIP Fellow Committee
- 2012 – 2018 European Digital Champion, Luxembourg advising European Commission
- 2015 – 2018 Awards Board, IEEE Fourier Award
- 2005 – 2017 Editor-in-Chief EURASIP, SIGNAL PROCESSING Journal
- 2010 – 2014 International Advisory Board, Security Link, Excellence Centre, Linköping University
- 2013 – 2015 Member of Board of Governors, IEEE Signal Processing Society
- 2011 – 2013 IEEE Signal Processing Society Fellow Committee
- 2001 – 2013 Scientific Advisory Board, Centre of Excellence, Helsinki University of Technology

2007 – 2012	IEEE Signal Processing Society Technical Comm. Theory and Methods
2007 - 2010	IEEE Signal Processing Society Awards Board
2003 - 2004	Co-Editor-in-Chief EURASIP, SIGNAL PROCESSING Journal
2002 - 2006	Editorial Board of IEEE Signal Processing Magazine
1998 - 2004	IEEE Signal Processing Society Technical Comm. on Communications
2000 - 2003	IEEE Signal Processing Society Sensor Array and Multichannel Technical Comm.
1999 - 2002	Associate Editor, IEEE Transactions on Signal Processing
2001 - 2003	International Advisory Board, Center for Person Kommunikation Aalborg University
2001 - 2006	IEE Technical Advisory Panel Signal Processing Professional Network
1996 - 1997	Director of Research, ArrayComm Inc. Santa Clara, CA
1993 - 2005	Scientific Advisory Board, ArrayComm Inc., Santa Clara, CA
1991 -	Member of several international grant evaluation committees, e.g., ERC, NSF, DFG, etc.
1991 -	Member and Chair of numerous conference committees including General Chair SPAWC 2015, Technical Program Chair SPAWC 2007, ICASSP 2008, Guest editor of several Special Issues.

## SUPERVISION

Table lists completed PhDs and post-docs as main supervisor, 21 are now university professors.

<b>Doctoral Degrees</b>		<b>Post-docs</b>	
2021	Hien Tran Dinh (UL)	2018/2020	Steven Kisseleff (FAU Erlangen)
2021	Abderrahmane Mayouche (Consultant)	2017/2019	Mohammad Alaei (Isfahan Univ)
2021	Aakash Arora (UL)	2017/2019	Yang Yang (TU Darmstadt)
2021	Sajad Mehrizi (UL)	2016/2018	Lei Lei (Linköping Univ)
2021	Alireza Haqiqatnejad (UL)	2016/2018	Thang X. Vu (Superlec, Paris)
2021	Saeid Sedighi (UL)	2016/2018	Abd El Rahman (Univ of Bourgogne)
2020	Sayed Hossein Dokhanchi (UL)	2016/2018	Yogesh Nijsure (Univ of Newcastle)
2018	Alberto Mengali (ESA)	2016/2018	Juan Duncan (UPC Barcelona)
2017	Girum Demisse (Facebook)	2015/2017	Farbod Kayhan (Univ Surrey)
2016	Ahmad Gharanjik (Databourg)	2015/2017	Christos Tsinos (Univ of Patras)
2016	Hassan Afzal (Leica Geosystems)	2015/2017	Mojtaba Soltanalian (UIC)
2016	Ashkan Kalantari (Ericsson)	2015/2016	Harri Pennanen (Oulu Univ)
2015	Maha Alodeh (Ericsson)	2015/2017	Stefano Andrenacci (SES)
2015	Alejandro Bahnsen (EasySolutions)	2014/2016	Eva Lagunas (UPC)
2015	Kassem Al Ismaeil (Munich RE)	2014/2016	Nicolò Mazzali (ESA)
2015	Roberto Piazza (Newtec)	2014/2016	Michel Antunes (Perceive3D)
2014	Shree Krishna Sharma (Ericsson)	2013/2015	Sina Maleki (Ericsson)
2014	Efthymios Tsakonas (Ernst&Young)	2012/2014	Aleksandar Stojanovic (Lux Admin)
2014	Dimitrios Christopoulos (Newtec)	2012/2013	Majid Butt (Qatar University)
2013	Simon Järmyr (Ericsson)	2012/2014	Dzevdan Kapetanovic (Ericsson)
2012	Frederic Garica (IEE S.A.)	2012	Hani Mehrpouyan (California State Univ)
2011	Emil Björnson (KTH)	2010/2011	Panelis-Daniel Arapoglou (ESA)
2010	Peter von Wrycza (Ericsson)	2009/2011	Djamila Aouada (NCSSU)
2010	Niklas Jaldén (Ericsson)	2009/2011	Symeon Chatzinotas (Univ. Surrey)
2009	Svante Bergman (Ericsson)	2008/2009	Gan Zheng (Loughborough Univ.)
2009	Marc Mowler (Ericsson)	2007/2009	Yongming Huang (Southeast Univ.)
2008	Joel Grotz (SES S.A.)	2006/2008	Bhavani Shankar (IISc)
2008	Xi Zhang (McKinsey)	2004/2005	Eduard Jorswieck (TU Dresden)
2008	Pandu Devarakota (Canon)	2004/2005	Tao Jiang (Macquarie)
2007	David Hammarwall (Ericsson)	2003	Daniel Palomar (HKUST)
2007	Patrick Svedman (ZTE)	2001/2002	Andreas Jakobsson (Lund Univ.)
2006	Joakim Jaldén (KTH)	1999/2000	Andras Mehes (Ericsson)

2005	Cristoff Martin (Ericsson)	1997/1998	Mikael Skoglund (KTH)
2005	Kai Yu (Chinese Academy)	1996/1997	Lars Villemoes (Dolby)
2005	Per Hyberg (Defense College)	1995/1996	Eric Ström (Chalmers)
2003	George Jöngren (Ericsson)	1994	Tönu Trump (Tallin Univ.)
2003	Göran Klang (Ericsson)		
2003	Rickard Stridh (Defense HQ)	1994 –	20 Technical licentiate degrees
2002	Björn Völcker (Google)		
2000	Mats Bengtsson (KTH)		
1999	David Astely (Ericsson)		
1998	Martin Kristensson (Nokia)		
1997	Bo Göransson (Ericsson)		
1997	Per Zetterberg (FOI)		
1996	Stefan Parkvall (Ericsson)		

## OTHER

### Publications (refereed), plenary/keynotes, and patents

Journal papers	300	Book chapters	26
Conference papers	550	Patents, issued	26
Invited papers	47	Plenary/keynotes	32
Citations	> 34.000	h-index	91

### Some major research projects

Principal investigator of some 40 major research projects.

2017 – 2022	2.5 MEUR	ERC, Advanced Grant	European research council
2020 – 2021	150 kEUR	Demonstration of a Radar Enabled Platform, PoC	European research council
2018 – 2020	790 kEUR	Proactive Edge Caching for Content Delivery Networks by Hybrid Satellite/Terrestrial Backhaul	FNR
2016 – 2018	732 kEUR	3D Action Recognition Using Refinement and Invariance Strategies for Reliable Surveillance	FNR
2016 – 2018	413 kEUR	Integrated Wireless Information and Power Networks	FNR/FNRS, UCL, Belgium
2014 – 2016	693 kEUR	Spectrum Management and Interference Mitigation Mitigation in Cognitive Radio Satellite Networks	FNR, SES partner
2011 – 2013	671 kEUR	Cooperative and Cognitive Architectures for Satellite Networks	FNR, SES partner
2014 – 2015	150 kEUR	Cooperative Infrastructure Redundant Positioning by Consumer Devices, PoC	European research council
2009 – 2013	1.9 MEUR	ERC, Advanced Investigators Grant	European research council
2006 – 2016	12 MEUR	Autonomic Complex Communication Networks, Signals and Systems	Swedish research council
2000 –	3.0 MEUR	European Projects	FP5/6/7, H2020, ICT, FET, ESA
1992 –	10 MEUR	Industrial research funding	Ericsson, Nokia, Telia Allgon, SES, IEE, ARTEC 3D, CETREL, etc.