

## Curriculum Vitae Torbjörn Lundh

- **MSc** Engineering Physics, Uppsala, 1989
- **PhD** Mathematics (potential theory), *Kleinian groups and thin sets at the boundary*, Advisor: Matts Essén, Uppsala, 1996
- **Postdocs**
  - i) 1997 Cambridge, UK
  - ii) 1997-1999, SUNY, Stony Brook, NY
  - iii) 1999-2000, Institut Mittag-Leffler, Djursholm
- **Sabbatical**  
Visiting professor at Vascular Surgery, Stanford, CA, August 2015 to June 2016.
- **Docent** 2004
- **Present position**  
Full professor in Mathematical Biology (Biomatematik) October 2019
- **Earlier positions**  
Lecturer, KTH, Stockholm, 1996.  
Assistant professor, Chalmers University of Technology, 2000-2004.  
Associate professor, Chalmers University of Technology, 2004-2010.  
Professor without a chair (Biträdande professor) in Mathematics, Chalmers University of Technology, 2010-2019.
- **Supervision**
  - Jonatan Vasilis, Tekn. Dr, Oct 2010, *Harmonic measures*
  - Sofia Tapani, Tekn Dr, November 2011, *Stochastic modelling and analysis of early mouse development*.
  - Jacob Leander, Tekn. Lic, Sept 2014, *Mixed-effects modeling using stochastic differential equations*
  - Tim Cardilin, Tekn. Dr, June 2020, *Combination therapy in oncology*
  - Jenny Larsson, March 2021, *Sea-shell-morphology*, co-advisor in Sheffield, UK
  - Johan Bondesson, May 2021, *Cardiovascular stent mechanics*, co-advisor.

Current supervision:

  - Ove Granstrand (Financial game theory)
  - Marcus Baaz (Synergetic cancer treatment)
- **Postdoc host**  
Dr. Jun Udagawa from Shimane University, Japan, 2007
- **Opponent**
  - Torbjörn Hellvik, Dynamical Systems of Interacting Units: Information Transport and Higher Order Structures, Trondheim, Norway, Jan. 13, 2006
  - Natalia Zabzina, Mathematical modelling approach to collective decision-making, Uppsala, Apr. 7, 2017
- **Prizes**
  - SKAPA innovation price 2014 for the PressCise bandage
  - "Most Innovative Product" for Lundatex® system at the Journal of Wound Care Awards, London, March 3, 2017
  - Best e-poster, Zinc based vs. Four Component compression, May 3, 2017
  - Best Product in Medical Textiles at the Future Textiles Awards, Frankfurt, May 12, 2017
  - Best impact research at Chalmers 2020.

- **Conference arranging**
  - [2nd Swedish conference on mathematical biology, 16-17 December, 2010](#)
  - [Aimday Image](#), 13 March, 2013
  - [Pseudo Science – an innocent game or a dangerous parasite?. 25 April, 2013](#)
  - [9th European Conference on Mathematical and Theoretical Biology, 15-19 June 2014](#)
  - Almedal Session: Mathematics is essential for keeping Sweden's strong position as an innovation nation, 4th July, 2016
  - [Engineering Health – the legacy of William Chalmers, Nov. 8-9, 2017](#)
  - [Mathematical Biology, fall 2018, Institute Mittag-Leffler](#)
  - [AI for health and healthy AI, August 2019, University of Gothenburg](#)
  - Scientific committee in [eSBM, Society for Mathematical Biology, Aug 2020](#), see also [The Scientist follow up article](#) about the meeting.
  - Scientific committee in ECMTB, September, 2022, Heidelberg.
- **Other positions**
  - Vice chair for Gothenburg Center of Systems Biology, 2012-2014
  - Profile leader of Mathematical Biology in the Area of Advance Life science engineering, 2012-2015
  - Vice-chair evaluator for [Research Executive Agency](#), Brussels
  - Member in the educational board at the Faculty of Science at Gothenburg University, “grundutbildningberedning” 2003-2006.
  - Member in the editorial group for the N! the Faculty of Science magazine at the University of Gothenburg. 2004-2009
  - Director of the [Mathematics Consultants](#) at the department. 2008-2011
  - Chairman of the [Swedish Committee on Education in Mathematics 2008-2011](#)
  - Chairman of the [Collegium](#) at Mathematical Sciences. 2009-2011
  - Chairman of [the Swedish National Committee for Mathematics under KVA, 2011-2015](#)
  - Chairman of *Matts Esséns minnesfond*. 2004-2014
  - Vice Chairman of [Chalmers' Faculty Board 2011-2015](#)
  - Program developer of the teacher training program at Chalmers: [Learning and Leadership](#)
  - [Member of the board of Chalmers Foundation, 2011-2015](#), (The fond gave 2015 a net profit of 156 MSEK)
  - Board member in Folkuniversitet Gothenburg
  - [Board member of European Society of Mathematical and Theoretical Biology](#)
  - [Main organizer of ECMTB 2014](#)
  - Inspector of Chalmers Student Union, 2014-2018
  - Member in [WASP's Graduate School Managements AI](#), 2017 -
  - Board member in [Smart Textiles](#), Borås, 2018 –
  - Vice Dean, Faculty of Science, University of Gothenburg, 2019 – 2021
  - Member of the Internationalization board at the University of Gothenburg, 2019 –
  - Deputy Vice Chancellor, University of Gothenburg, 2021 –
  - Board member in Universeum, Gothenburg, 2021 –
  - Board member in Sahlgrenska Science Park, 2021 –
  - Board member in GU-ventures, 2021 –
  - Board member in Lindholmen Science Park, , 2021 –
  - President of [UNITECH international](#), 2022 -
- **Start up companies**
  - Mamillicon HB (an innovation company for a traffic warning system with several prizes from VentureCup)
  - [GraftCraft AB](#) (developmental company for vascular stents and grafts)

- y-Graft AB (daughter company to GraftCraft AB with a novel by-pass)
- PressCise AB (innovation medtech company within the field of compression treatment)
- Navari Surgical AB
- **Funding within the medtech field**
  - GothenburgBIO
  - Innovationskontor Väst
  - Almi
  - BIO-X
  - Smart Textiles
  - VINN-verifiering
  - Skapa Utvecklingsstipendium (West Swedish region winner 2014)
  - Curamus foundation
- **Own developed freely available computer programs**
  - Urdar – a digital ecology platform: <http://www.math.chalmers.se/~torbjrn/Urdar/urdar.html> with Philip Gerlee.
- **Presentations on conferences and invited seminars**
  - Luleå (Gerd Brandell), February 22, 1995.
  - Milano (Wolfgang Woess), March 22 1995.
  - KTH (Björn Gustafsson), March 29 1995.
  - Universidad Autonoma de Madrid (José Fernández), Sept. 1995.
  - Linköping (Lars-Inge Hedberg), March 15 1996.
  - Trondheim (Workshop on conformal geometry), May 1996.
  - Helsinki (Nordic mathematical meeting), Sept. 1996.
  - Heidelberg (3rd european conference on mathematics applied to biology and medicine), poster but no talk, October 1996.
  - Cambridge UK (Alan Beardon), January, February 1997.
  - Southampton (Graham Niblo), January 31.
  - Warwick (Caroline Series), February 3 1997.
  - Imperial College (Sanju Velani), February 21 1997.
  - Durham (John Parker), March 10 1997.
  - Uppsala (Conference in honour of Matts Essén), June 17 1997.
  - Stony Brook, three Analysis seminars (Irvin Kra et al), 1997-1999.
  - Stony Brook, two Ecology & Evolution seminars (Dennis Slice), 1998.
  - Stony Brook, Xenopus- and mice-lab meeting (Jerry Thomsen), 1998.
  - Knoxville, Tennessee, (The Barrett Memorial Lectures), June 8 1998.
  - Washington University, St. Louis (Al Baernstein), March, 1999.
  - Uppsala, Bio-mathematical seminar (Sten Kaijser) September, 1999.
  - Uppsala, Finance seminar (Johan Tysk) October 1999.
  - Institute Mittag Leffler, October 1999.
  - Uppsala, Stochastic seminar (Tom Britton), January 2000.
  - Stockholm Bioinformatic Center (Jens Lagergren), February 2000.
  - Umeå (Kaj Nyström), March 2000.
  - Uppsala, Systematic Biology (Leif Tibell), April 2000.
  - Helsingör (Bioinformatics meeting), poster, April 2000.
  - Göteborg (Workshop in Bioinformatics at Nya Varvet) May 9 2000.
  - KTH (Swedish Russian meeting), October 4 2000.
  - Graz, (Fractals in Graz), May 2001.
  - GU, Lunchföredrag, October 12 2001.

KTH (Björn Gustafsson), November 6 2001.  
Göteborg, The Zoomorphology Seminar, November 8 2001.  
Matsue, Shimane University (Hiraoki Aikawa), February 2002.  
Dublin (Stephen Gardiner), December 10 2002.  
Uppsala, Statistical seminar, (Sven-Eric Alm), January 2003.  
Karlstad, Kollokvium, April 2003.  
Göteborg, 2nd Nordic Summer School for Female PhD students in Mathematics, Aug. 2003.  
Uppsala, The Linnaeus Centre for Bioinformatics (Vincent Moulton), October 20 2003.  
Trondheim, (Ingvill Holden) conference on popularization of mathematics, Nov. 2003.  
Malmö, Matematikbiennalen (one of the opening speakers), Jan. 2004.  
Linköping, (Anders Björn) April 2004.  
Matsue, Japan, International Workshop on Potential Theory (invited speaker) August 24, 2004.  
Matsue, Japan, Open session in embryogenesis, in August 26 2004.  
The vascular group at Sahlgrenska, Göteborg, September 24, 2004.  
Uppsala, DNA-seminar, November 1, 2004.  
Stockholm, Pluricomplex seminar, November 2, 2004.  
Statistiska seminariet Göteborg, "Which ball is the roundest?", 14 november, 2004  
Zoöekologiska seminariet, Göteborg, "War of attrition", 22 februari, 2005.  
Real evolution in artificial life, Svenska Mässan, Dinosaur exhibition, June 6 2005.  
Minisymposium on dynamical systems. Trondheim, Norway, Jan. 12 2006  
The Gothenburg Centre for Theoretical Biology och Ekologisk Zoologi,, 17 October, 2006  
Multiphysics meeting, Copenhagen, Nov.1-2, 2006  
Analytic morphogenesis, Dundee, Nov. 7  
Morphological computations, Venice, 26-30 mars, 2007  
PDE & Mathematical Biology, KTH, Stockholm, July 9-11, 2007  
Björn Gustafsson meeting, KTH, Oct. 15-17, 2007  
Morphogenesis meeting, Gothenburg, 14-15 nov, 2007  
Sonja Kovalevsky-dagarna, Nov. 16-17, 2007  
Hokkaido University, Sapporo Jan. 24, 2007  
Tokyo University, Jan. 22, 2007  
Shimane University, Jan. 15, 2007  
Symposium for research on learning and teaching in mathematics, Gothenburg, 10<sup>th</sup> March, 2008.  
Science for a better life, ESOF, Barcelona, 17-18 July, 2008.  
ALife XI, Southampton, UK, 5 augusti, 2008  
Random models in science, engineering and medicine, Smögen, Aug.18-22, 2008.  
Sonja Kovalevsky-dagarna, Uppsala, Nov. 7-8, 2008.  
Spetsutbildningar i matematik, Norra Latin, Nov. 13, 2008.  
International Symposium, Mathematical Analysis of Developmental Phenomena, ShimaneUniversity, Matsue, Japan, Nov. 23, 2008  
En civiliserad matematisk kväll i humanismens tecken, Science festival in Gbg, 6 May, 2009  
Toward the elucidation of the developmental origins of diseases, Izumo, Japan, 30/10, 2009  
First Swedish meeting on Theory and Mathematics in Biology and Medicine, 17/12, 2009  
Matematikbiennalen, Stockholm, 28 January, 2010  
Niels Bohr Institutet, Coopenhagen, Danmark, 31 March, 2010  
Mathematical Models for Biological Systems, Università di Trento,10/2, 2011  
Swedish-Korean biotechmeeting, The Royal Swedish Academy of Sciences, 14 April, 2011  
European Conference on Mathematical and Theoretical Biology, Krakow, 29 June, 2011

European Conference on Artificial Life, Paris, 8-12 August, 2011  
3rd Swedish meeting on Mathematics in Biology, Umeå, 14–16 December, 2011  
Matematikbiennalen, Umeå universitet, 26 January, 2012  
CeMEB-meeting, Tjärnö, 10 October, 2012  
4th Swedish meeting on Mathematics in Biology, 10<sup>th</sup> December, 2012  
Image Analysis SSBA 2013, Gothenburg, 14 mars, 2013  
Chalmers meets track and field, 24 April 2013  
Park Annual, Gothenburg, 12 September, 2013  
Integrated Mathematical Oncology, Moffitt Cancer Center, Tampa, FL, 17 January, 2014  
From the clinic to pde and back, ICERM, Brown University, RI, 20 January 2014  
Matematikbiennalen i Umeå, 7 February 2014  
Life Science Monday Seminary, 10 February, 2014  
Medtech & Biomaterials, A well-defined compression bandage pressure is a far stretch of the truth today, but tomorrow. PressCise can give you a precise pressure, Gothenburg, 4 March 2014  
Sport & Smarta Textilier, Chalmers, 27 mars 2014 ECMTB, Minisymposia: Game Theory in Ecology and Evolution, Cross-feeding as a game, Gothenburg, 16 June  
Moderator Park Annual, 11 September, Sahlgrenska Science Park, 2014  
Svenska Medicinteknikdagarna, Knitted mathematical solutions to three vascular surgery problems, Gothenburg, 15 October 2014  
MedtechWest seminar, Three cardiovascular problems solved by mathematics and realized by knitting, Sahlgrenska, Gothenburg, 26 February, 2015  
Ja, ja men vad är då liv egentligen? Science festival in Gothenburg, 16 April 2015  
The ecology of innovation, SACF Korea, Hanyang University, Seoul, Sydkorea, 21 April 2015  
A removable stent, CVI annual retreat, Stanford, USA, 27 October 2015  
Real Cardiovascular Problems, Resolved by Mathematics and Realized by Knitting, Biomathematic Seminar, UCLA, 10 December 2015.  
Simulations and models (in that order) of evolving cross-feeding ecologies, Ecology lunch seminar, Stanford April 12th, 2016.  
Four cardiovascular problems approached by mathematics, Applied Math. Seminar, Stanford, 6<sup>th</sup> May, 2016  
Competition-Collaboration among Cancer Cell strains, Integrated Mathematical Oncology, Moffitt Cancer Center, Tampa, FL, May 5, 2016  
Real cardiovascular problems, resolved by mathematics and realized by knitting in Nottingham, European Conference for Mathematical and Theoretical Biology, July 14th 2016  
An innovative compression system providing low, sustained resting pressure and high, efficient working pressure, University of Ferrara, Italy, Sept. 25<sup>th</sup>, 2016  
Advances in the Management of Chronic Venous Disorders and Update of Guidelines, Increasing working compression pressure and maintaining low resting pressure, Larnaca, Cyprus, March 10, 2017  
Charing X, London, two invited talks, April 25th and 27th 2017  
Zinc based vs. Four Component compression, EWMA, Amsterdam, prize winning e-poster presentation, May 4, 2017  
International Compression Club, Amsterdam, May 5, 2017  
dCode-summer-school, Kristineberg, Aug. 15, 2017  
Mathematics models applied to bandaging, VI International Inter-University Meeting in Phlebology, Lymphology and Aesthetics, Albarella Island, Italy, Sept. 7, 2017  
Bokmässan, Kunskapsstafett, 29 September, 2017

Institute of Mathematics Polish Academy of Sciences , Dec 9th, 2017  
 Matematikbiennalen, Karlstad, 25 and 26 Jan. 2018.  
 Karlstad Applied Analysis Seminar (KAAS), June 13, 2018  
 ECMTB, Lisbon, July 25, 2018  
 EWMA, Gothenburg, June 6<sup>th</sup>, 7<sup>th</sup>, 2019  
 dCod summer-school, Runde, Norge, June, 2019  
 EVF, Zurich, June, 2019  
 Systems Biology Lunch Seminar, Harvard, Sept 28, 2019  
 WASP-presentation, RWTH, Aachen, Oct. 17, 2019  
 Soup & Science, Chalmerska huset, Jan. 27, 2020  
 INNOVSAIL, Digital, Långedrag, June 16, 2020  
 Soup & Science, Chalmerska huset, Nov 2020  
 Almedalen, NKM-panel, July 4<sup>th</sup>, 2022  
 Wound Healing Society, UC-Davis, Sacramento, Oct. 2022

- **Referee accepted papers**

1. On boundary layers, Hiroaki Aikawa, Torbjörn Lundh, *Arkiv för matematik*. Vol. 34 (1), 1996
2. Discrete groups and thin sets, Torbjörn Lundh, *Ann. Acad. Sci. Fenn. A I*. Vol. 23, p. 291-315, 1998
3. Percolation Diffusion, Torbjörn Lundh, *Stochastic Processes and their Applications*. Vol. 95 (2), p. 235-244, 2001
4. MARTIN BOUNDARY FOR UNION OF CONVEX SETS, Hiroaki Aikawa, Kentaro Hirata, Torbjörn Lundh, *京都大学数理解析研究所, Potential Theory and Related Topics*. Vol. 1293, p. 1-14, 2002
5. Geodesics on Riemann Surfaces and their corresponding Limit Points, Torbjörn Lundh, *Michigan Mathematical Journal*. Vol. 51, p. 279-304, 2003
6. Martin boundary of a fractal domain, Hiroaki Aikawa, Torbjörn Lundh, Tomohiko Mizutani, *Potential Analysis*. Vol. 18 (4), p. 311-357, 2003
7. Minimally thin sets below a function graph, Torbjörn Lundh, *Complex Variables. Theory and Application*. Vol. 49 (7-9), p. 639-645, 2004
8. War of attrition with implicit time cost, Anders Eriksson, Kristian Lindgren, Torbjörn Lundh, *Journal of Theoretical Biology*. Vol. 230 (3), p. 319-332, 2004
9. The 3G inequality for a uniformly John domain, Hiroaki Aikawa, Torbjörn Lundh, *Kodai Mathematical Journal*. Vol. 28 (2), p. 209-219, 2005
10. The Genetic coding style of digital organisms, Philip Gerlee, Torbjörn Lundh, *Lecture Notes in Computer Science*. Vol. 3630, p. 854-863, 2005
11. Minimal Martin boundary points of a John domain and unions of convex sets. *J. Math. Soc. Japan*, 58, no. 1, 247–274 (2006), with H. Aikawa and K. Hirata.
12. Which ball is the roundest? – a suggested stability index for tournaments. *Journal of Quantitative Analysis in Sports*, Article 1, Volume 2, Issue 3: 1-21, (2006).
13. Morphometric study on the characteristic external features of normal and abnormal human embryos. *Congenit Anom Kyoto*. 48(1) p. 18-28, (2008) with H. Otano, J. Udagawa, T. Hatta, R. Hashimoto, A. Matsumoto, and F. Satow.
14. The Emergence of Overlapping Scale-free Genetic Architecture in Digital Organisms, *Artificial Life* Vol. 14, No. 3: 265–275, (2008).
15. Gene divergence and pathway duplication in the metabolic network of yeast and digital organisms. *Journal of the Royal Society Interface*. 6 s. 1233-1245. Nr. 95730, (2009), with Gerlee, P.

16. A model of sympatric speciation through reinforcement Kinetic and Related Models. 3 (1) s. 143-163. Nr. 112216, (2010), with Henriksson, J. and Wennberg, B.
17. Productivity and diversity in a cross-feeding population of digital organisms. *Evolution*. 64 s. 2716–273, 2010, with Gerlee, P.
18. Cross- and triple-ratios of human body parts during development *Anatomical Records* 294:1360-1369. (2011) with Udagawa J, Hänel SE and Otani H.
19. Mathematical analysis of mandibular morphogenesis by micro-CT-based mouse and alizarin red S-stained-based human studies during development *Anatomical Records*, 295 (2) s. 313, (2012), with A. Rafiq, J. Udagawa, E. Jahan, J. Sekine, H. Otani.
20. Effects of space in the game “war of attrition”, *Phys. Rev. E* 85, 041115 (2012), with P. Gerlee.
21. Cross-feeding dynamics described by a series expansion of the replicator equation, *Bull. Math. Biology*, 75 (5) s. 709-724, (2013) with P. Gerlee
22. Wrangé, A-L. ; André, C. ; Lundh, T. et al. (2014). Importance of plasticity and local adaptation for coping with changing salinity in coastal areas: a test case with barnacles in the Baltic Sea. *BMC Evolutionary Biology*. 14 s. artikel 156. [Nr. 199766]
23. Leander, J. ; Lundh, T. ; Jirstrand, M. Stochastic differential equations as a tool to regularize the parameter estimation problem for continuous time dynamical systems given discrete time measurements. *Mathematical Biosciences*. 251 s. 54-62. [Nr. 195122], 2014
24. B. Vessman, P. Gerlee, T. Lundh, Estimating the probability of coexistence in cross-feeding communities, *Journal of Theoretical Biology*. Vol. 408 (7), p. 13-21, 2016
25. T. Lundh, Controlled Compression Treatment With a Constant Resting Pressure and High Peak Working Pressure, *Journal of Vascular Surgery*. Vol. 65 (Issue 6, Supplement), p. 106S-107S
26. Josefín Damm ; Torbjörn Lundh ; Hugo Partsch ; Giovanni Mosti, An Innovative Compression System Providing Low, Sustained Resting Pressure and High, Efficient Working Pressure *Veins and Lymphatics* Vol. 6 (2017),
27. P. Gerlee, K. Tunstrøm T. Lundh and B. Wennberg, Impact of anticipation in dynamical systems, *Physical Review E*, 2470-0045 (ISSN), Vol. 96, 2017
28. T. Lundh, P. DiGiacomo, Ga-Young Suh,,C. Cheng, A Lagrangian cylindrical coordinate system for characterizing dynamic surface geometry of tubular anatomic structures, *Medical & Biological Engineering & Computing*, to appear 2018, DOI: 10.1007/s11517-018-1801-8
29. Nilsson, A., Lundh, T., Damm, J. Good-bye slippage - a new fusion to tackle bandage slippage on the foot”, Volume 7:7797, December 2018, Pages 112-114.
30. Bondesson, J., Suh, G., Lundh, T., Lee, J. T., Dake, M. D., and Cheng, C. P. (December 12, 2019). "Automated Quantification of Diseased Thoracic Aortic Longitudinal Centerline and Surface Curvatures." *ASME. J Biomech Eng*. April 2020; 142(4): 041007
31. Liu, Y., Hjerpe, D., Lundh, T. (2020) Side reactions do not completely disrupt linear self-replicating chemical reaction systems *Artificial Life*, 26(3): 327-337
32. Tamagawa, T., Lundh, T., Shigetoshi, K. et al (2020) Correlation between musculoskeletal structure of the hand and primate locomotion: Morphometric and mechanical analysis in prehension using the cross-and triple-ratios *PLoS ONE*, 15(5)
33. Larsson, J., Westram, A., Bengmark, S., Lundh, T. et al (2020) A developmentally descriptive method for quantifying shape in gastropod shells *Journal of the Royal Society Interface*, 17(163) <http://dx.doi.org/10.1098/rsif.2019.0721>
34. Fallahi, S., Mlnaríková, M., Alvord, C. et al (2020) New Conceptual Toxicokinetic Model to Assess Synergistic Mixture Effects between the Aromatic Hydrocarbon  $\beta$ -Naphthoflavone and

- the Azole Nocodazole on the CYP1A Biomarker in a Fish Cell Line Environmental Science & Technology, 54(21): 13748-13758 <http://dx.doi.org/10.1021/acs.est.0c04839>
35. Bondesson, J., Suh, G. Y., Lundh, T., Dake, M. D., Lee, J. T., & Cheng, C. P. (2021). Quantification of true lumen helical morphology and chirality in type B aortic dissections. *American Journal of Physiology-Heart and Circulatory Physiology*, 320(2), H901-H911.
  36. Zhou, S., Zhang, J., Jiang, H., Lundh, T. & Ng, A. (2021) Data augmentation with Mobius transformations Machine Learning: Science and Technology, 2(2) <http://dx.doi.org/10.1088/2632-2153/abd615>
  37. Cardilin, T., Lundh, T., Jirstrand, M. (2021) Optimization of additive chemotherapy combinations for an in vitro cell cycle model with constant drug exposures Mathematical Biosciences, 338 <http://dx.doi.org/10.1016/j.mbs.2021.108595>
  38. Victoria Ashley Lang, Torbjörn Lundh, Max Jair Ortiz Catalan, (2021), Mathematical and Computational Models for Pain: A Systematic Review, Pain Medicine. Vol. 22 (12), p. 2806-2817
  39. Gerlee, P., Karlsson, J., Fritzell, I. et al (2021). Predicting regional COVID-19 hospital admissions in Sweden using mobility data. Scientific Reports, 11(1). <http://dx.doi.org/10.1038/s41598-021-03499-y>
  40. Armin Spreco, Anna Jöud, Olle Eriksson, Kristian Soltesz, Reidar Källström, Örjan Dahlström, Henrik Eriksson, Joakim Ekberg, Carl-Oscar Jonson, Carl-Johan Fraenkel, Torbjörn Lundh, Philip Gerlee, Fredrik Gustafsson, Toomas Timpka, Nowcasting (Short-Term Forecasting) of COVID-19 Hospitalizations Using Syndromic Healthcare Data, Emerging Infectious Diseases • www.cdc.gov/eid • Vol. 28, No. 3, March 2022

## Referee accepted conference proceedings

41. Lundh, T. A Quantification of the Morphological Computations in Perception Systems. In Proceedings of the International Conference on Morphological Computation, Venice, Italy, 26–28 March 2007
42. Three dimensional mathematical modelling of pronuclei migration for the mouse. Stereology and Image Analysis. ECS10: Proceeding of the 10th European Conference of ISS., (V.Capasso et al. Ed.), The MIRIAM Project Series. 4 s. 1-6. ISBN/ISSN: 978-88-7488-310-3 Nr. 99257, with Tapani, S.; Udagawa, J. et al. (2010).
43. Rock-Scissor-Paper dynamics in a digital ecology, Proceedings of the Twelfth International Conference on the Synthesis and Simulation of Living Systems. s. 285-295. 2010, ISBN/ISSN: 0-262-29075-8, with P. Gerlee.
44. Pseudo Science – How do we prepare our students to deal with it? KUL 2013 – Chalmers Konferens om Undervisning och Lärande. with Galt, S. (2013).
45. Celandier, M. C. ; Wiklander, K. ; Lundh, T. (2015). DEVELOPMENT OF ALTERNATIVE MATHEMATICAL TOOLS TO ASSESS SYNERGISTIC MIXTURE EFFECTS , *18th International symposium on Pollutant Responses in Marine Organisms (PRIMO18)*. [Nr. 215891]
46. Finnsgård, C. ; Larsson, L. ; Lundh, T. et al. (2015). High Performance Sailing in Olympic Classes - a Research Outlook and Proposed Directions, *Proceedings, 5th High Performance Yacht Design Conference, Auckland, 8-11 March 2015*. s. 141-149. ISBN/ISSN: 978-1-909024-37-3 [Nr. 215230]

47. Torbjoern Lundh, Sarah Sorice; Geoffrey Gurtner; Shannon Meyer; Subhro Sen; Robert Robertson; Jeanie Parsley and Venita Chandra at Stanford University School of Medicine: Wound circulation speeds up immediately after a hyperbaric oxygen treatment, ePresentation at the 17th European Venous Forum, London, July, 2016
48. Sarah C. Sorice, Torbjörn Lundh, Alexander Y. Li et al, Hyperbaric Oxygen Corrects the Peri-Wound Microvascular Flow, Journal of the American College of Surgeons. Vol. 223 (4), p. S97-S98, 2016  
Nilsson, A. & Lundh, T. A new stocking compression system with a low well-defined resting pressure and high working pressure. International Compression Club, Paris, France, 2017
49. Lundh, T & Nilsson, A. Compression vs CVD - a three punch combo, Annual Meeting European Venous Forum, Porto, Portugal, 2017
50. J. Bondesson, Ga-Young Suh, T. Lundh, J. Lee, M. Dake, C. Cheng Definition of Tubular Anatomic Structures from Arbitrary Stereo Lithographic Surface, Engineering Health, Nov. 8, 2017, Chalmers, 2017
51. T. Lundh, S. Bengmark, Fermat Pedagogy – a method to help students make effective lecture notes, 6:e UTVECKLINGSKONFERENSEN för Sveriges ingenjörutbildningar, Göteborg, 2017-11-22 - 2017-11-23, p. 61-65, 2018.
52. A. Nilsson, T. Lundh, A new stocking compression system with a low well-defined resting pressure and a high working pressure, Veins and Lymphatics Vol. 7 7628 s. 69-70, 2018
53. Bondesson & Lundh, Biomechanical modeling of aortic surface dynamics – importance and applications, Svenska Mekanikdagarna, Stockholm, Sweden, 2019
54. Bondesson, Suh, Lundh, Dake, Lee, Cheng, True Lumen Helicity in Type B Dissections, Transcatheter Cardiovascular Therapeutics (TCT), San Francisco, USA, 2019
55. Samuel Bengmark, Torbjörn Lundh, Philip Gerlee, Combining engineering and teacher education – ideas and experiences from Chalmers University of Technology, Bidrag från 8:e Utvecklingskonferensen för Sveriges ingenjörutbildningar, 2021
56. Marcus Baaz, Tim Cardilin, Mats Jirstrand, Torbjörn Lundh, (2022), Population Modeling of Toxicological Combination Effects
57. D. Lidstrom, Torbjörn Lundh, Laura Marimon Giovannetti, Agent based match racing simulations: Starting practice, SNAME 24th Chesapeake Sailing Yacht Symposium, CSYS 2022

#### Chapter in a book

58. Everyday calculus teaching. Emanuelsson, J., Fainsilber, L., Häggström, J., Kullberg, A., Lindström, B. & Löwing, M. (Eds.), Voices on learning and instruction in mathematics. National Centre for Mathematics Education, University of Gothenburg. s. 101-116. Nr. 118266, (2010)

#### Book in Swedish

59. Vetenskapliga modeller – Svarta lådor, röda atomer och vita lögnar. Lund: Studentlitteratur. ISBN/ISSN: 978-91-44-07420-7, (2012), with Philip Gerlee.

## Book in English

60. Scientific Models - Red Atoms, White Lies and Black Boxes in a Yellow Book, Springer, 2016, with Philip Gerlee

## Patents/patent applications

61. New vascular prosthesis, Lundh, T.; Mattsson, E. Swedish pat. no. SE 531 374 C2 (2009)
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Mail: [torbjorn.lundh@chalmers.se](mailto:torbjorn.lundh@chalmers.se)

Tel: +46766184070 or +46709847070

Web:

<https://www.chalmers.se/en/Staff/Pages/torbjorn-lundh.aspx>

<https://www.gu.se/en/about/find-staff/torbjornlundh>

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