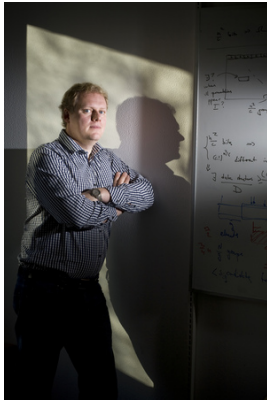


Curriculum Vitæ



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Brief Biography

Gerth Stølting Brodal is an Associate Professor at the Department of Computer Science, Aarhus University, Denmark. He received his PhD in computer science in 1997 from the Aarhus University for the thesis “Worst Case Efficient Data Structures”. From 1997 to 1998 he was a Post. Doc. in the group of Kurt Mehlhorn at the Max-Planck-Institute for Computer Science in Saarbrücken, Germany. From 1998-2005 he was affiliated with BRICS (Center for Basic Research in Computer Science) located at the Department of Computer Science, Aarhus University. Since 2004 he is an Associate Professor (tenured) at the Department of Computer Science, Aarhus University. Since March 2007 he is affiliated with MADALGO (Center for Massive Data Algorithmics), Aarhus University, founded by the Danish National Research Foundation.

His main research interests are the design and analysis of algorithms and data structures. He has done work on fundamental data structures, including dictionaries and priority queues, persistent data structures, computational geometry, graph algorithms, I/O-efficient and cache-oblivious algorithms and data structures, string algorithms, and computational biology.

Education

February 1993–April 1997	Ph.D. in Computer Science, Aarhus University, Denmark. Dissertation: Worst Case Efficient Data Structures. Advisor: Erik Meineche Schmidt. Committee: Mogens Nielsen (Aarhus), Arne Andersson (Lund), and J. Ian Munro (Waterloo).
August 1989–November 1994	M.Sc. (cand.scient) in Computer Science and Mathematics, Aarhus University, Denmark.
August 1988–May 1989	Military service, Jyske Telegrafregiment, Fredericia, Denmark.
August 1985–June 1988	“Studentereksamen”, Aabenraa Gymnasium og HF, Aabenraa, Denmark.

Positions

April 2009–present	Associate Professor (tenured, Lektor MSK), Department of Computer Science, Aarhus University.
April 2004–March 2009	Associate Professor (tenured), Department of Computer Science, Aarhus University.

August 2001–January 2005	Associate Professor, BRICS, Department of Computer Science, Aarhus University.
August 1999–July 2001	Research Associate Professor, BRICS, Department of Computer Science, Aarhus University.
August 1998–July 1999	Research Assistant Professor, BRICS Ph.D. School, Department of Computer Science, Aarhus University.
February 1997–July 1998	Post. doc. at Max-Planck-Institut für Informatik, Saarbrücken, Germany.

Funding

July 2005–June 2006	The Danish Natural Science Research Council, <i>Graph Algorithms and Constraint Programming</i> , post.doc. Irit Katriel., 480.000 DKK.
January 2005–December 2007	The Danish Natural Science Research Council, Grant #21-04-0389, <i>Algoritmer til rekonstruktion og sammenligning af træer og netværk</i> . Coordinator Christian N.S. Pedersen, University of Aarhus, 360.000 DKK.
January 2005–December 2007	Nordic Network on Algorithms from the Nordic Academy for Advanced Study (NORFA). Coordinator Fedor V. Fomin, University of Bergen, 900.000 NOK (825.000 DKK).
January 2008–December 2009	Nordic Network on Algorithms from the Nordic Academy for Advanced Study (NORFA). Coordinator Fedor V. Fomin, University of Bergen, 600.000 NOK (510.000 DKK).
February 2002–January 2005	Associate Professor grant from the Carlsberg Foundation, 1.350.000 DKK.
May–July 1998	Scholarship (post. doc.) from the Max-Planck-Institut für Informatik, Saarbrücken, Germany, 10.200 DM (39.200 DKK).
May 1997–April 1998	Scholarship (post. doc.) from the Carlsberg Foundation, 300.000 DKK.
February–April 1997	Scholarship (post. doc.) from the Max-Planck-Institut für Informatik, Saarbrücken, Germany, 10.200 DM (39.200 DKK).
February 1995–January 1997	Scholarship (Ph.D.-stipendium) from the Danish Natural Science Research Council, 717.591 DKK.
February 1993–January 1995	Scholarship (Scholarstipendium) from the Danish Research Academy, 156.000 DKK.

Awards

2001	Best paper award 12th Annual International Symposium on Algorithms and Computation, for the paper “Computing the Quartet Distance Between Evolutionary Trees in Time $O(n \log^2 n)$ ”, coauthored with Rolf Fagerberg and Christian N. S. Pedersen.
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Publications

Conference publications appearing in journals and technical reports appearing elsewhere are numbered in parenthesis with the newer appearance.

Editor

- 1 *Algorithms - ESA 2005: 13th Annual European Symposium*, Gerth Stølting Brodal and Stefano Leonardi (Edt.), volume 3669 of *Lecture Notes in Computer Science*. Springer Verlag, Berlin, 2005.
- 2 *Algorithm Engineering - 5th International Workshop (WAE 2001)*, Gerth Stølting Brodal, Daniele Frigioni, and Alberto Marchetti-Spaccamela (Edt.), volume 2141 of *Lecture Notes in Computer Science*. Springer Verlag, Berlin, 2001.

Book Chapters

- 3 **Cache-Oblivious Sorting**, Gerth Stølting Brodal. In *Encyclopedia of Algorithms*, Ming-Yang Kao (Edt.), pages 126-129. Springer, 2008.
- 4 **Cache-Oblivious Data Structures**, Lars Arge, Gerth Stølting Brodal, and Rolf Fagerberg. In *Handbook of Data Structures and Applications*, Dinesh Mehta and Sartaj Sahni (Edt.), 27 pages. CRC Press, 2005.
- 5 **Finger Search Trees**, Gerth Stølting Brodal. In *Handbook of Data Structures and Applications*, Dinesh Mehta and Sartaj Sahni (Edt.), 11 pages. CRC Press, 2005.

Journal Articles

- 6 **External Memory Planar Point Location with Logarithmic Updates**, Lars Arge, Gerth Stølting Brodal, and S. Srinivasa Rao. In *Algorithmica*, volume 63(1), pages 457-475, 2012.
- 7 **On Space Efficient Two Dimensional Range Minimum Data Structures**, Gerth Stølting Brodal, Pooya Davoodi, and S. Srinivasa Rao. In *Algorithmica, Special issue on ESA 2010*, volume 63(4), pages 815-830, 2012.
- 8 **Optimal Sparse Matrix Dense Vector Multiplication in the I/O-Model**, Michael A. Bender, Gerth Stølting Brodal, Rolf Fagerberg, Riko Jacob, and Elias Vicari. In *Theory of Computing Systems, Special issue of SPAA'07*, volume 47(4), pages 934-962, 2010.
- 9 **Towards Optimal Range Median**, Gerth Stølting Brodal, Beat Gfeller, Allan Grønlund Jørgensen, and Peter Sanders. In *Theoretical Computer Science, Special issue of ICALP'09*, volume 412(24), pages 2588-2601, 2011.
- 10 **Faster Algorithms for Computing Longest Common Increasing Subsequences**, Martin Kutz, Gerth Stølting Brodal, Kanella Kaligosi, and Irit Katriel. In *Journal of Discrete Algorithms, Special Issue of CPM 2006*, volume 9(4), pages 314-325, 2011.
- 11 **The Cost of Cache-Oblivious Searching**, Michael A. Bender, Gerth Stølting Brodal, Rolf Fagerberg, Dongdong Ge, Simai He, Haodong Hu, John Iacono, and Alejandro López-Ortiz. In *Algorithmica*, volume 61(2), pages 463-505, 2011.
- 12 **Computing the All-Pairs Quartet Distance on a set of Evolutionary Trees**, Martin Stissing, Thomas Mailund, Christian Nørgaard Storm Pedersen, Gerth Stølting Brodal, and Rolf Fagerberg. In *Journal of Bioinformatics and Computational Biology*, volume 6(1), pages 37-50, 2008.
- 13 **On the Adaptiveness of Quicksort**, Gerth Stølting Brodal, Rolf Fagerberg, and Gabriel Moruz. In *ACM Journal of Experimental Algorithmics, Special Issue of ALENEX 2005*, volume 12(Article No. 3.2), 19 pages, 2008.
- 14 **An $O(n \log n)$ Version of the Averbakh-Berman Algorithm for the Robust Median of a Tree**, Gerth Stølting Brodal, Loukas Georgiadis, and Irit Katriel. In *Operations Research Letters*, volume 36(1), pages 14-18, 2008.

- 15 **Engineering a Cache-Oblivious Sorting Algorithm**, Gerth Stølting Brodal, Rolf Fagerberg, and Kristoffer Vinther. In *ACM Journal of Experimental Algorithmics, Special Issue of ALENEX 2004*, volume 12(Article No. 2.2), 23 pages, 2007.
- 16 **Recrafting the Neighbor-Joining Method**, Thomas Mailund, Gerth Stølting Brodal, Rolf Fagerberg, Christian Nørgaard Storm Pedersen, and Derek Phillips. In *BMC Bioinformatics*, volume 7(29), 2006.
- 17 **Fast Allocation and Deallocation with an Improved Buddy System**, Gerth Stølting Brodal, Erik D. Demaine, and J. Ian Munro. In *Acta Informatica*, volume 41(4-5), pages 273-291, 2005.
- 18 **On External-Memory MST, SSSP and Multi-way Planar Graph Separation**, Lars Arge, Gerth Stølting Brodal, and Laura Toma. In *Journal of Algorithms*, volume 53(2), pages 186-206, 2004.
- 19 **Computing the Quartet Distance Between Evolutionary Trees in Time $O(n \log n)$** , Gerth Stølting Brodal, Rolf Fagerberg, and Christian Nørgaard Storm Pedersen. In *Algorithmica, Special issue on ISAAC 2001*, volume 38(2), pages 377-395, 2003.
- 20 **Optimal Finger Search Trees in the Pointer Machine**, Gerth Stølting Brodal, George Lagogiannis, Christos Makris, Athanasios Tsakalidis, and Kostas Tsichlas. In *Journal of Computer and System Sciences, Special issue on STOC 2002*, volume 67(2), pages 381-418, 2003.
- 21 **Optimal Solutions for the Temporal Precedence Problem**, Gerth Stølting Brodal, Christos Makris, Spyros Sioutas, Athanasios Tsakalidis, and Kostas Tsichlas. In *Algorithmica*, volume 33(4), pages 494-510, 2002.
- 22 **Comparator Networks for Binary Heap Construction**, Gerth Stølting Brodal and M. Cristina Pinotti. In *Theoretical Computer Science*, volume 250(1-2), pages 235-245, 2001.
- 23 **Improved Bounds for Dictionary Look-up with One Error**, Gerth Stølting Brodal and Venkatesh Srinivasan. In *Information Processing Letters*, volume 75(1-2), pages 57-59, 2000.
- 24 **Finding Maximal Pairs with Bounded Gap**, Gerth Stølting Brodal, Rune Bang Lyngsø, Christian Nørgaard Storm Pedersen, and Jens Stoye. In *Journal of Discrete Algorithms, Special Issue of Matching Patterns*, volume 1(1), pages 77-104, 2000.
- 25 **Priority Queues on Parallel Machines**, Gerth Stølting Brodal. In *Parallel Computing*, volume 25(8), pages 987-1011, 1999.
- 26 **A Parallel Priority Queue with Constant Time Operations**, Gerth Stølting Brodal, Jesper Larsson Träff, and Christos D. Zaroliagis. In *Journal of Parallel and Distributed Computing, Special Issue on Parallel Data Structures*, volume 49(1), pages 4-21, 1998.
- 27 **The Randomized Complexity of Maintaining the Minimum**, Gerth Stølting Brodal, Shiva Chaudhuri, and Jaikumar Radhakrishnan. In *Nordic Journal of Computing, Selected Papers of the 5th Scandinavian Workshop on Algorithm Theory (SWAT'96)*, volume 3(4), pages 337-351, 1996.
- 28 **Partially Persistent Data Structures of Bounded Degree with Constant Update Time**, Gerth Stølting Brodal. In *Nordic Journal of Computing*, volume 3(3), pages 238-255, 1996.
- 29 **Optimal Purely Functional Priority Queues**, Gerth Stølting Brodal and Chris Okasaki. In *Journal of Functional Programming*, volume 6(6), pages 839-858, 1996.

Conference Articles

- 30 **Strict Fibonacci Heaps**, Gerth Stølting Brodal, George Lagogiannis, and Robert E. Tarjan. To appear in *Proc. 44th Annual ACM Symposium on Theory of Computing*, pages 1177-1184, 2012.

- 31 **Cache-Oblivious Implicit Predecessor Dictionaries with the Working Set Property**, Gerth Stølting Brodal and Casper Kejlberg-Rasmussen. In *Proc. 29th Annual Symposium on Theoretical Aspects of Computer Science*, volume 14 of *Leibniz International Proceedings in Informatics*, pages 112-123. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, 2012.
- 32 **Fully Persistent B-trees**, Gerth Stølting Brodal, Spyros Sioutas, Konstantinos Tsakalidis, and Kostas Tsichlas. In *Proc. 23rd Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 602-614, 2012.
- 33 **OnlineMin: A Fast Strongly Competitive Randomized Paging Algorithm**, Gerth Stølting Brodal, Gabriel Moruz, and Andrei Negoescu. In *Proc. 9th Workshop on Approximation and Online Algorithms*, volume 7164 of *Lecture Notes in Computer Science*, pages 164-175. Springer Verlag, Berlin, 2011.
- 34 **Path Minima Queries in Dynamic Weighted Trees**, Gerth Stølting Brodal, Pooya Davoodi, and S. Srinivasa Rao. In *Proc. 12th International Workshop on Algorithms and Data Structures*, volume 6844 of *Lecture Notes in Computer Science*, pages 290-301. Springer Verlag, Berlin, 2011.
- 35 **Dynamic Planar Range Maxima Queries**, Gerth Stølting Brodal and Konstantinos Tsakalidis. In *Proc. 38th International Colloquium on Automata, Languages, and Programming*, volume 6755 of *Lecture Notes in Computer Science*, pages 256-267. Springer Verlag, Berlin, 2011.
- 36 **Integer Representations towards Efficient Counting in the Bit Probe Model**, Gerth Stølting Brodal, Mark Greve, Vineet Pandey, and S. Srinivasa Rao. In *Proc. 8th Annual Conference on Theory and Applications of Models of Computation*, volume 6648 of *Lecture Notes in Computer Science*, pages 206-217. Springer Verlag, Berlin, 2011.
- 37 **Ordered and Unordered Top-K Range Reporting in Large Data Sets**, Peyman Afshani, Gerth Stølting Brodal, and Norbert Zeh. In *Proc. 22nd Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 390-400, 2011.
- 38 **D^2 -Tree: A New Overlay with Deterministic Bounds**, Gerth Stølting Brodal, Spyros Sioutas, Kostas Tsichlas, and Christos D. Zaroliagis. In *Proc. 21th Annual International Symposium on Algorithms and Computation, Part II*, volume 6507 of *Lecture Notes in Computer Science*, pages 1-12. Springer Verlag, Berlin, 2010.
- 39 **A Cache-Oblivious Implicit Dictionary with the Working Set Property**, Gerth Stølting Brodal, Casper Kejlberg-Rasmussen, and Jakob Truelsen. In *Proc. 21th Annual International Symposium on Algorithms and Computation, Part II*, volume 6507 of *Lecture Notes in Computer Science*, pages 37-48. Springer Verlag, Berlin, 2010.
- (7) **On Space Efficient Two Dimensional Range Minimum Data Structures**, Gerth Stølting Brodal, Pooya Davoodi, and S. Srinivasa Rao. In *Proc. 18th Annual European Symposium on Algorithms*, volume 6347 of *Lecture Notes in Computer Science*, pages 171-182. Springer Verlag, Berlin, 2010.
- 40 **Cache-Oblivious Dynamic Dictionaries with Optimal Update/Query Tradeoff**, Gerth Stølting Brodal, Erik D. Demaine, Jeremy T. Fineman, John Iacono, Stefan Langerman, and J. Ian Munro. In *Proc. 21st Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 1448-1456, 2010.
- (9) **Data Structures for Range Median Queries**, Gerth Stølting Brodal and Allan Grønlund Jørgensen. In *Proc. 20th Annual International Symposium on Algorithms and Computation*, volume 5878 of *Lecture Notes in Computer Science*, pages 822-831. Springer Verlag, Berlin, 2009.
- 41 **Online Sorted Range Reporting**, Gerth Stølting Brodal, Rolf Fagerberg, Mark Greve, and Alejandro López-Ortiz. In *Proc. 20th Annual International Symposium on Algorithms and Computation*, volume 5878 of *Lecture Notes in Computer Science*, pages 173-182. Springer Verlag, Berlin, 2009.

- 42 **Dynamic 3-sided Planar Range Queries with Expected Doubly Logarithmic Time**, Gerth Stølting Brodal, Alexis C. Kaporis, Spyros Sioutas, Konstantinos Tsakalidis, and Kostas Tsichlas. In *Proc. 20th Annual International Symposium on Algorithms and Computation*, volume 5878 of *Lecture Notes in Computer Science*, pages 193-202. Springer Verlag, Berlin, 2009.
- 43 **Counting in the Presence of Memory Faults**, Gerth Stølting Brodal, Allan Grønlund Jørgensen, Gabriel Moruz, and Thomas Mølhave. In *Proc. 20th Annual International Symposium on Algorithms and Computation*, volume 5878 of *Lecture Notes in Computer Science*, pages 842-851. Springer Verlag, Berlin, 2009.
- 44 **Fault Tolerant External Memory Algorithms**, Gerth Stølting Brodal, Allan Grønlund Jørgensen, and Thomas Mølhave. In *Proc. 11th International Workshop on Algorithms and Data Structures*, volume 5664 of *Lecture Notes in Computer Science*, pages 411-422. Springer Verlag, Berlin, 2009.
- 45 **Selecting Sums in Arrays**, Gerth Stølting Brodal and Allan Grønlund Jørgensen. In *Proc. 19th Annual International Symposium on Algorithms and Computation*, volume 5369 of *Lecture Notes in Computer Science*, pages 100-111. Springer Verlag, Berlin, 2008.
- (6) **External memory planar point location with logarithmic updates**, Lars Arge, Gerth Stølting Brodal, and S. Srinivasa Rao. In *Proc. 24th Annual ACM Symposium on Computational Geometry*, pages 139-147, 2008.
- 46 **Optimal Resilient Dynamic Dictionaries**, Gerth Stølting Brodal, Rolf Fagerberg, Irene Finocchi, Fabrizio Grandoni, Giuseppe Italiano, Allan Grønlund Jørgensen, Gabriel Moruz, and Thomas Mølhave. In *Proc. 15th Annual European Symposium on Algorithms*, volume 4708 of *Lecture Notes in Computer Science*, pages 347-358. Springer Verlag, Berlin, 2007.
- 47 **Dynamic Matchings in Convex Bipartite Graphs**, Gerth Stølting Brodal, Loukas Georgiadis, Kristoffer A. Hansen, and Irit Katriel. In *Proc. 32nd International Symposium on Mathematical Foundations of Computer Science*, volume 4708 of *Lecture Notes in Computer Science*, pages 406-417. Springer Verlag, Berlin, 2007.
- 48 **A Linear Time Algorithm for the k Maximal Sums Problem**, Gerth Stølting Brodal and Allan Grønlund Jørgensen. In *Proc. 32nd International Symposium on Mathematical Foundations of Computer Science*, volume 4708 of *Lecture Notes in Computer Science*, pages 442-453. Springer Verlag, Berlin, 2007.
- 49 **The ComBack Method - Extending Hash Compaction with Backtracking**, Michael Westergaard, Lars Michael Kristensen, Gerth Stølting Brodal, and Lars Arge. In *Proc. 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN 2007*, volume 4546 of *Lecture Notes in Computer Science*, pages 445-464. Springer Verlag, Berlin, 2007.
- (8) **Optimal Sparse Matrix Dense Vector Multiplication in the I/O-Model**, Michael A. Bender, Gerth Stølting Brodal, Rolf Fagerberg, Riko Jacob, and Elias Vicari. In *Proc. 19th ACM Symposium on Parallelism in Algorithms and Architectures*, pages 61-70, 2007.
- 50 **Computing the Quartet Distance Between Evolutionary Trees of Bounded Degree**, Martin Stissing, Christian Nørgaard Storm Pedersen, Thomas Mailund, Gerth Stølting Brodal, and Rolf Fagerberg. In *Proc. 5th Asia Pacific Bioinformatics Conference*, volume 5 of *Advances in Bioinformatics & Computational Biology*, pages 101-110. Imperial College Press, 2007.
- (12) **Computing the All-Pairs Quartet Distance on a set of Evolutionary Trees**, Martin Stissing, Thomas Mailund, Christian Nørgaard Storm Pedersen, Gerth Stølting Brodal, and Rolf Fagerberg. In *Proc. 5th Asia Pacific Bioinformatics Conference, Advances in Bioinformatics & Computational Biology*, pages 91-100. Imperial College Press, 2007.
- 51 **Improved Dynamic Planar Point Location**, Lars Arge, Gerth Stølting Brodal, and Loukas Georgiadis. In *Proc. 47th Annual Symposium on Foundations of Computer Science*, pages 305-314, 2006.

- 52 **Purely Functional Worst Case Constant Time Catenable Sorted Lists**, Gerth Stølting Brodal, Christos Makris, and Kostas Tsichlas. In *Proc. 14th Annual European Symposium on Algorithms*, volume 4168 of *Lecture Notes in Computer Science*, pages 172-183. Springer Verlag, Berlin, 2006.
- 53 **Skewed Binary Search Trees**, Gerth Stølting Brodal and Gabriel Moruz. In *Proc. 14th Annual European Symposium on Algorithms*, volume 4168 of *Lecture Notes in Computer Science*, pages 708-719. Springer Verlag, Berlin, 2006.
- (10) **Faster Algorithms for Computing Longest Common Increasing Subsequences**, Gerth Stølting Brodal, Kanela Kaligosi, Irit Katriel, and Martin Kutz. In *Proc. 17th Annual Symposium on Combinatorial Pattern Matching*, volume 4009 of *Lecture Notes in Computer Science*, pages 330-341. Springer Verlag, Berlin, 2006.
- 54 **Cache-oblivious String Dictionaries**, Gerth Stølting Brodal and Rolf Fagerberg. In *Proc. 17th Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 581-590, 2006.
- 55 **Tradeoffs Between Branch Mispredictions and Comparisons for Sorting Algorithms**, Gerth Stølting Brodal and Gabriel Moruz. In *Proc. 9th International Workshop on Algorithms and Data Structures*, volume 3608 of *Lecture Notes in Computer Science*, pages 385-395. Springer Verlag, Berlin, 2005.
- 56 **Cache-Aware and Cache-Oblivious Adaptive Sorting**, Gerth Stølting Brodal, Rolf Fagerberg, and Gabriel Moruz. In *Proc. 32nd International Colloquium on Automata, Languages, and Programming*, volume 3580 of *Lecture Notes in Computer Science*, pages 576-588. Springer Verlag, Berlin, 2005.
- 57 **Cache-Oblivious Planar Orthogonal Range Searching and Counting**, Lars Arge, Gerth Stølting Brodal, Rolf Fagerberg, and Morten Laustsen. In *Proc. 21st Annual ACM Symposium on Computational Geometry*, pages 160-169, 2005.
- (13) **On the Adaptiveness of Quicksort**, Gerth Stølting Brodal, Rolf Fagerberg, and Gabriel Moruz. In *Proc. 7th Workshop on Algorithm Engineering and Experiments*, pages 130-140, 2005.
- 58 **Cache-Oblivious Algorithms and Data Structures**, Gerth Stølting Brodal. In *Proc. 9th Scandinavian Workshop on Algorithm Theory*, volume 3111 of *Lecture Notes in Computer Science*, pages 3-13. Springer Verlag, Berlin, 2004.
- 59 **Cache-Oblivious Data Structures and Algorithms for Undirected Breadth-First Search and Shortest Paths**, Gerth Stølting Brodal, Rolf Fagerberg, Ulrich Meyer, and Norbert Zeh. In *Proc. 9th Scandinavian Workshop on Algorithm Theory*, volume 3111 of *Lecture Notes in Computer Science*, pages 480-492. Springer Verlag, Berlin, 2004.
- (15) **Engineering a Cache-Oblivious Sorting Algorithm**, Gerth Stølting Brodal, Rolf Fagerberg, and Kristoffer Vinther. In *Proc. 6th Workshop on Algorithm Engineering and Experiments*, pages 4-17, 2004.
- 60 **Time-Dependent Networks as Models to Achieve Fast Exact Time-Table Queries**, Gerth Stølting Brodal and Riko Jacob. In *Proc. Algorithmic Methods and Models for Optimization of Railways (ATMOS 2003)*, volume 92(1) of *Electronic Notes in Theoretical Computer Science*, 12 pages. Elsevier Science, 2003.
- (11) **The Cost of Cache-Oblivious Searching**, Michael A. Bender, Gerth Stølting Brodal, Rolf Fagerberg, Dongdong Ge, Simai He, Haodong Hu, John Iacono, and Alejandro López-Ortiz. In *Proc. 44th Annual Symposium on Foundations of Computer Science*, pages 271-282, 2003.
- 61 **Computing Refined Buneman Trees in Cubic Time**, Gerth Stølting Brodal, Rolf Fagerberg, Anna Östlin, Christian Nørgaard Storm Pedersen, and S. Srinivasa Rao. In *Proc. 3rd Workshop on Algorithms in BioInformatics*, volume 2812 of *Lecture Notes in Computer Science*, pages 259-270. Springer Verlag, Berlin, 2003.

- 62 **On the Limits of Cache-Obliviousness**, Gerth Stølting Brodal and Rolf Fagerberg. In *Proc. 35th Annual ACM Symposium on Theory of Computing*, pages 307-315, 2003.
- 63 **Lower Bounds for External Memory Dictionaries**, Gerth Stølting Brodal and Rolf Fagerberg. In *Proc. 14th Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 546-554, 2003.
- 64 **Funnel Heap - A Cache Oblivious Priority Queue**, Gerth Stølting Brodal and Rolf Fagerberg. In *Proc. 13th Annual International Symposium on Algorithms and Computation*, volume 2518 of *Lecture Notes in Computer Science*, pages 219-228. Springer Verlag, Berlin, 2002.
- 65 **Dynamic Planar Convex Hull**, Gerth Stølting Brodal and Riko Jacob. In *Proc. 43rd Annual Symposium on Foundations of Computer Science*, pages 617-626, 2002.
- 66 **Time and Space Efficient Multi-Method Dispatching**, Stephen Alstrup, Gerth Stølting Brodal, Inge Li Gørtz, and Theis Rauhe. In *Proc. 8th Scandinavian Workshop on Algorithm Theory*, volume 2368 of *Lecture Notes in Computer Science*, pages 20-29. Springer Verlag, Berlin, 2002.
- 67 **Cache Oblivious Distribution Sweeping**, Gerth Stølting Brodal and Rolf Fagerberg. In *Proc. 29th International Colloquium on Automata, Languages, and Programming*, volume 2380 of *Lecture Notes in Computer Science*, pages 426-438. Springer Verlag, Berlin, 2002.
- 68 **Solving the String Statistics Problem in Time $O(n \log n)$** , Gerth Stølting Brodal, Rune Bang Lyngsø, Anna Östlin, and Christian Nørgaard Storm Pedersen. In *Proc. 29th International Colloquium on Automata, Languages, and Programming*, volume 2380 of *Lecture Notes in Computer Science*, pages 728-739. Springer Verlag, Berlin, 2002.
- (20) **Optimal Finger Search Trees in the Pointer Machine**, Gerth Stølting Brodal, George Lagogiannis, Christos Makris, Athanasios Tsakalidis, and Kostas Tsichlas. In *Proc. 34th Annual ACM Symposium on Theory of Computing*, pages 583-591, 2002.
- 69 **Cache-Oblivious Search Trees via Binary Trees of Small Height**, Gerth Stølting Brodal, Rolf Fagerberg, and Riko Jacob. In *Proc. 13th Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 39-48, 2002.
- (19) **Computing the Quartet Distance Between Evolutionary Trees in Time $O(n \log^2 n)$** , Gerth Stølting Brodal, Rolf Fagerberg, and Christian Nørgaard Storm Pedersen. In *Proc. 12th Annual International Symposium on Algorithms and Computation*, volume 2223 of *Lecture Notes in Computer Science*, pages 731-742. Springer Verlag, Berlin, 2001.
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- 71 **Optimal Static Range Reporting in One Dimension**, Stephen Alstrup, Gerth Stølting Brodal, and Theis Rauhe. In *Proc. 33rd Annual ACM Symposium on Theory of Computing*, pages 476-482, 2001.
- 72 **New Data Structures for Orthogonal Range Searching**, Stephen Alstrup, Gerth Stølting Brodal, and Theis Rauhe. In *Proc. 41st Annual Symposium on Foundations of Computer Science*, pages 198-207, 2000.
- 73 **Dynamic Planar Convex Hull with Optimal Query Time and $O(\log n \cdot \log \log n)$ Update Time**, Gerth Stølting Brodal and Riko Jacob. In *Proc. 7th Scandinavian Workshop on Algorithm Theory*, volume 1851 of *Lecture Notes in Computer Science*, pages 57-70. Springer Verlag, Berlin, 2000.
- (18) **On External Memory MST, SSSP and Multi-way Planar Graph Separation**, Lars Arge, Gerth Stølting Brodal, and Laura Toma. In *Proc. 7th Scandinavian Workshop on Algorithm Theory*, volume 1851 of *Lecture Notes in Computer Science*, pages 433-447. Springer Verlag, Berlin, 2000.

- 74 **Finding Maximal Quasiperiodicities in Strings**, Gerth Stølting Brodal and Christian Nørgaard Storm Pedersen. In *Proc. 11th Annual Symposium on Combinatorial Pattern Matching*, volume 1848 of *Lecture Notes in Computer Science*, pages 397-411. Springer Verlag, Berlin, 2000.
- 75 **Pattern Matching in Dynamic Texts**, Stephen Alstrup, Gerth Stølting Brodal, and Theis Rauhe. In *Proc. 11th Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 819-828, 2000.
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- (24) **Finding Maximal Pairs with Bounded Gap**, Gerth Stølting Brodal, Rune Bang Lyngsø, Christian Nørgaard Storm Pedersen, and Jens Stoye. In *Proc. 10th Annual Symposium on Combinatorial Pattern Matching*, volume 1645 of *Lecture Notes in Computer Science*, pages 134-149. Springer Verlag, Berlin, 1999.
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- 78 **Worst-Case Efficient External-Memory Priority Queues**, Gerth Stølting Brodal and Jyrki Katajainen. In *Proc. 6th Scandinavian Workshop on Algorithm Theory*, volume 1432 of *Lecture Notes in Computer Science*, pages 107-118. Springer Verlag, Berlin, 1998.
- (22) **Comparator Networks for Binary Heap Construction**, Gerth Stølting Brodal and M. Cristina Pinotti. In *Proc. 6th Scandinavian Workshop on Algorithm Theory*, volume 1432 of *Lecture Notes in Computer Science*, pages 158-168. Springer Verlag, Berlin, 1998.
- 79 **Finger Search Trees with Constant Insertion Time**, Gerth Stølting Brodal. In *Proc. 9th Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 540-549, 1998.
- (26) **A Parallel Priority Data Structure with Applications**, Gerth Stølting Brodal, Jesper Larsson Träff, and Christos D. Zaroliagis. In *Proc. 11th International Parallel Processing Symposium*, Dror G. Feitelson and Larry Rudolph (Edt.), pages 689-693, IEEE Comput. Soc. Press, 1997.
- 80 **Predecessor Queries in Dynamic Integer Sets**, Gerth Stølting Brodal. In *Proc. 14th Annual Symposium on Theoretical Aspects of Computer Science*, volume 1200 of *Lecture Notes in Computer Science*, pages 21-32. Springer Verlag, Berlin, 1997.
- (27) **The Randomized Complexity of Maintaining the Minimum**, Gerth Stølting Brodal, Shiva Chaudhuri, and Jaikumar Radhakrishnan. In *Proc. 5th Scandinavian Workshop on Algorithm Theory*, volume 1097 of *Lecture Notes in Computer Science*, pages 4-15. Springer Verlag, Berlin, 1996.
- (25) **Priority Queues on Parallel Machines**, Gerth Stølting Brodal. In *Proc. 5th Scandinavian Workshop on Algorithm Theory*, volume 1097 of *Lecture Notes in Computer Science*, pages 416-427. Springer Verlag, Berlin, 1996.
- 81 **Approximate Dictionary Queries**, Gerth Stølting Brodal and Leszek Gąsieniec. In *Proc. 7th Annual Symposium on Combinatorial Pattern Matching*, volume 1075 of *Lecture Notes in Computer Science*, pages 65-74. Springer Verlag, Berlin, 1996.
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- 83 **Fast Meldable Priority Queues**, Gerth Stølting Brodal. In *Proc. 4th International Workshop on Algorithms and Data Structures*, volume 955 of *Lecture Notes in Computer Science*, pages 282-290. Springer Verlag, Berlin, 1995.

Technical Reports

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- (31) **Cache-Oblivious Implicit Predecessor Dictionaries with the Working Set Property**, Gerth Stølting Brodal and Casper Kejlberg-Rasmussen. Technical Report, 1112.5472, arXiv.org, 16 pages, December 2011.
- (38) **D²-Tree: A New Overlay with Deterministic Bounds**, Gerth Stølting Brodal, Spyros Sioutas, Kostas Tsichlas, and Christos D. Zaroliagis. Technical Report, 1009.3134, arXiv.org, 21 pages, September 2010.
- (46) **Optimal Resilient Dynamic Dictionaries**, Gerth Stølting Brodal, Rolf Fagerberg, Allan Grønlund Jørgensen, Gabriel Moruz, and Thomas Mølhøve. Technical Report, DAIMI PB-585, Department of Computer Science, Aarhus University, 14 pages, November 2007.
- (10) **Faster Algorithms for Computing Longest Common Increasing Subsequences**, Gerth Stølting Brodal, Kanela Kaligosi, Irit Katriel, and Martin Kutz. Technical Report, BRICS-RS-05-37, BRICS, Department of Computer Science, Aarhus University, 16 pages, December 2005.
- (13) **On the Adaptiveness of Quicksort**, Gerth Stølting Brodal, Rolf Fagerberg, and Gabriel Moruz. Technical Report, BRICS-RS-04-27, BRICS, Department of Computer Science, Aarhus University, 23 pages, December 2004.
- (59) **Cache-Oblivious Data Structures and Algorithms for Undirected Breadth-First Search and Shortest Paths**, Gerth Stølting Brodal, Rolf Fagerberg, Ulrich Meyer, and Norbert Zeh. Technical Report, BRICS-RS-04-2, BRICS, Department of Computer Science, Aarhus University, 19 pages, January 2004.
- (16) **Speeding Up Neighbour-Joining Tree Construction**, Gerth Stølting Brodal, Rolf Fagerberg, Thomas Mailund, Christian Nørgaard Storm Pedersen, and Derek Phillips. Technical Report, ALCOMFT-TR-03-102, ALCOM-FT, 9 pages, November 2003.
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- (62) **On the Limits of Cache-Obliviousness**, Gerth Stølting Brodal and Rolf Fagerberg. Technical Report, ALCOMFT-TR-03-74, ALCOM-FT, 17 pages, November 2003.
- (63) **Lower Bounds for External Memory Dictionaries**, Gerth Stølting Brodal and Rolf Fagerberg. Technical Report, ALCOMFT-TR-03-75, ALCOM-FT, 13 pages, November 2003.
- (11) **The Cost of Cache-Oblivious Searching**, Michael A. Bender, Gerth Stølting Brodal, Rolf Fagerberg, Dongdong Ge, Simai He, Haodong Hu, John Iacono, and Alejandro López-Ortiz. Technical Report, ALCOMFT-TR-03-76, ALCOM-FT, 18 pages, November 2003.
- (17) **Fast Allocation and Deallocation with an Improved Buddy System**, Gerth Stølting Brodal, Erik D. Demaine, and J. Ian Munro. Technical Report, ALCOMFT-TR-03-3, ALCOM-FT, 15 pages, May 2003.
- (61) **Computing Refined Buneman Trees in Cubic Time**, Gerth Stølting Brodal, Rolf Fagerberg, Anna Östlin, Christian Nørgaard Storm Pedersen, and S. Srinivasa Rao. Technical Report, BRICS-RS-02-51, BRICS, Department of Computer Science, Aarhus University, 14 pages, December 2002.

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 - (20) **Optimal Finger Search Trees in the Pointer Machine**, Gerth Stølting Brodal, George Lagogiannis, Christos Makris, Athanasios Tsakalidis, and Kostas Tsihclas. Technical Report, ALCOMFT-TR-02-77, ALCOM-FT, 17 pages, May 2002.
 - (66) **Time and Space Efficient Multi-Method Dispatching**, Stephen Alstrup, Gerth Stølting Brodal, Inge Li Gørtz, and Theis Rauhe. Technical Report, ALCOMFT-TR-02-76, ALCOM-FT, 9 pages, May 2002.
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 - (68) **Solving the String Statistics Problem in Time $O(n \log n)$** , Gerth Stølting Brodal, Rune Bang Lyngsø, Anna Östlin, and Christian Nørgaard Storm Pedersen. Technical Report, ALCOMFT-TR-02-55, ALCOM-FT, 12 pages, May 2002.
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 - (18) **On External Memory MST, SSSP and Multi-way Planar Graph Separation**, Lars Arge, Gerth Stølting Brodal, and Laura Toma. Technical Report, ALCOMFT-TR-01-38, ALCOM-FT, 14 pages, May 2001.

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 - (73) **Dynamic Planar Convex Hull with Optimal Query Time and $O(\log n \cdot \log \log n)$ Update Time**, Gerth Stølting Brodal and Riko Jacob. Technical Report, ALCOMFT-TR-01-34, ALCOM-FT, 14 pages, May 2001.
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 - (23) **Improved Bounds for Dictionary Look-up with One Error**, Gerth Stølting Brodal and Venkatesh Srinivasan. Technical Report, BRICS-RS-99-50, BRICS, Department of Computer Science, Aarhus University, 5 pages, December 1999.
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 - (75) **Dynamic Pattern Matching**, Stephen Alstrup, Gerth Stølting Brodal, and Theis Rauhe. Technical Report, DIKU Report 98/27, Department of Computer Science, University of Copenhagen, 16 pages, 1998.
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- (29) **Optimal Purely Functional Priority Queues**, Gerth Stølting Brodal and Chris Okasaki. Technical Report, BRICS-RS-96-37, BRICS, Department of Computer Science, Aarhus University, 27 pages, October 1996.
- (83) **Fast Meldable Priority Queues**, Gerth Stølting Brodal. Technical Report, BRICS-RS-95-12, BRICS, Department of Computer Science, Aarhus University, 12 pages, February 1995.
- (28) **Partially Persistent Data Structures of Bounded Degree with Constant Update Time**, Gerth Stølting Brodal. Technical Report, BRICS-RS-94-35, BRICS, Department of Computer Science, Aarhus University, 24 pages, November 1994.

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Submissions

- 88 **Finger Search in the Implicit Model**, Gerth Stølting Brodal, Jesper Sindahl Nielsen, and Jakob Truelsen. Submitted to *37th International Symposium on Mathematical Foundations of Computer Science*.
- 89 **Two Dimensional Range Minimum Queries and Fibonacci Lattices**, Gerth Brodal, Pooya Davoodi, Moshe Lewenstein, Rajeev Raman and Srinivasa Rao Satti. Submitted to *20th Annual European Symposium on Algorithms*.
- 90 **D^2 -Tree: A New Overlay with Deterministic Bounds**, Gerth Stølting Brodal, Spyros Sioutas, Kostas Tsichlas, and Christos Zaroliagis. Submitted to *Journal of Parallel and Distributed Computing*.
- 91 **Dynamic 3-sided Planar Range Queries with Expected Doubly Logarithmic Time**, Gerth Stølting Brodal, Alexis Kaporis, Apostolos Papadopoulos, Spyros Sioutas, Konstantinos Tsakalidis, and Kostas Tsichlas. Submitted to *Theoretical Computer Science*.
- 92 **OnlineMin: A Fast Strongly Competitive Randomized Paging Algorithm**, Gerth Stølting Brodal, Gabriel Moruz, and Andrei Negoescu. Submitted to *Theory of Computing Systems, Special issue of the 9th Workshop on Approximation and Online Algorithms*.
- 93 **Solving the String Statistics Problem in Time $O(n \log n)$** , Gerth Stølting Brodal, Rune B. Lyngsø, Anna Östlin, and Christian N. S. Pedersen. Submitted to *Algorithmica*.

Coauthors

Peyman Afshani, Pankaj K. Agarwal, Stephen Alstrup, Lars Arge, Michael A. Bender, Shiva Chaudhuri, Pooya Davoodi, Erik D. Demaine, Rolf Fagerberg, Jeremy T. Fineman, Irene Finocchi, Dongdong Ge, Loukas Georgiadis, Beat Gfeller, Fabrizio Grandoni, Mark Greve, Leszek Gąsieniec, Inge Li Gørtz, Kristoffer A. Hansen, Simai He, Haodong Hu, Thore Husfeldt, John Iacono, Giuseppe Italiano, Riko Jacob, Allan Grønlund Jørgensen, Kanela Kaligosi, Alexis C. Kaporis, Jyrki Katajainen, Irit Katriel, Casper Kejlberg-Rasmussen, Lars Michael Kristensen, Martin Kutz, George Lagogiannis, Stefan Langerman, Morten Laustsen, Rune Bang Lyngsø, Alejandro López-Ortiz, Thomas Mailund, Christos Makris, Ulrich Meyer, Gabriel Moruz, J. Ian Munro, Thomas Mølhave, Andrei Negoescu, Chris Okasaki, Vineet Pandey, Apostolos Papadopoulos, Christian Nørgaard Storm Pedersen, Derek Phillips, M. Cristina Pinotti, Jaikumar Radhakrishnan, S. Srinivasa Rao, Theis Rauhe, Peter Sanders, Spyros Sioutas, Sven Skyum, Venkatesh

Srinivasan, Martin Stissing, Jens Stoye, Robert E. Tarjan, Laura Toma, Jakob Truelsen, Jesper Larsson Träff, Athanasios Tsakalidis, Konstantinos Tsakalidis, Kostas Tsichlas, Elias Vicari, Kristoffer Vinther, Jeff Vitter, Michael Westergaard, Christos D. Zaroliagis, Norbert Zeh, Anna Östlin.

Program Committees

- 2012 *14th Workshop on Algorithm Engineering and Experiments*, Kyoto, Japan.
4th Workshop on Massive Data Algorithmics, Ljubljana, Slovenia.
23rd International Workshop on Combinatorial Algorithms, Kalasalingam University, Tamil Nadu, India.
- 2011 *3rd Workshop on Massive Data Algorithmics*, Paris, France.
22nd International Workshop on Combinatorial Algorithms, University of Victoria, Victoria, British Columbia, Canada.
- 2010 *2nd Workshop on Massive Data Algorithmics*, Snowbird, Utah.
21st International Workshop on Combinatorial Algorithms, King's College London, UK.
9th Latin American Symposium on Theoretical Informatics, Oaxaca, Mexico.
12th Scandinavian Workshop on Algorithm Theory, Bergen, Norway.
18th Annual European Symposium on Algorithms, Liverpool, UK.
- 2009 *11th International Workshop on Algorithms and Data Structures*, Banff, Alberta, Canada.
8th International Symposium on Experimental Algorithms, Dortmund, Germany.
1st Workshop on Massive Data Algorithmics, Aarhus, Denmark (co-chair).
21st ACM Symposium on Parallelism in Algorithms and Architectures, Calgary, Canada.
36th International Colloquium on Automata, Languages and Programming, Rhodes, Greece.
- 2008 *7th International Workshop on Experimental Algorithms*, Provincetown, Cape Cod, Massachusetts, USA.
- 2007 *10th International Workshop on Algorithms and Data Structures*, Halifax, Canada.
18th Annual ACM-SIAM Symposium on Discrete Algorithms, New Orleans, Louisiana, USA.
9th Workshop on Algorithm Engineering and Experiments, New Orleans, Louisiana, USA (co-chair).
IEEE 2007 International Symposium on Parallel and Distributed Processing with Applications, Niagara Falls, Ontario, Canada.
24th Annual Symposium on Theoretical Aspects of Computer Science, Aachen, Germany.
International Workshop on Algorithmic Topics in Constraint Programming (cancelled), Wrocław, Poland.

- 2006 *9th Scandinavian Workshop on Algorithm Theory*, Riga, Latvia.
13th Symposium on String Processing and Information Retrieval (SPIRE), Glasgow, Scotland.
- 2005 *13th Annual European Symposium on Algorithms – Engineering and Application Track*, Mallorca, Spain (chair).
37th Annual ACM Symposium on Theory of Computing, Baltimore, Maryland, USA.
4th International Workshop on Efficient and Experimental Algorithms, Santorini Island, Greece.
- 2004 *15th Annual ACM-SIAM Symposium on Discrete Algorithms*, New Orleans, Louisiana, USA.
31st International Colloquium on Automata, Languages and Programming, Turku, Finland.
24th Conference on Foundations of Software Technology and Theoretical Computer Science, Chennai, India.
3rd International Conference on Fun With Algorithms, Isola d’Elba, Tuscany, Italy.
6th Latin American Symposium on Theoretical Informatics, Buenos Aires, Argentina.
15th Annual Symposium on Combinatorial Pattern Matching, Istanbul, Turkey.
- 2003 *8th International Workshop on Algorithms and Data Structures*, Ottawa, Canada.
5th Workshop on Algorithm Engineering and Experiments, Baltimore, MD, USA.
Workshop on Algorithms for Massive Data Sets (cancelled), Eindhoven, The Netherlands (co-chair).
11th Euromicro Conference on Parallel Distributed and Networking based Processing, Special session on Memory Hierarchies, Genoa, Italy.
- 2001 *9th Annual European Symposium on Algorithms*, Aarhus, Denmark.
- 1999 *Workshop on Algorithmic Aspects of Advanced Programming Languages*, Paris, France.

Invited Speaker

- August 2008 *Lectures on lower bounds and string algorithms. MADALGO Summer School on Cache Oblivious Algorithms*, MADALGO, Aarhus University, Denmark.
- June 2008 *Word RAM algorithms. International PhD School in Algorithms for Advanced Processor Architectures*, IT University of Copenhagen, Denmark.
- July 2004 *Cache-Oblivious Algorithms and Data Structures. 9th Scandinavian Workshop on Algorithm Theory*, Louisiana Museum of Modern Art, Humlebæk, Denmark.

December 1999 *Regularities in Sequences. Workshop on Advances in Data Structures, preworkshop of the 19th Annual Conference on Foundations of Software Technology and Theoretical Computer Science, Chennai, India.*

Conference Participation

January 2012 *23rd Annual ACM-SIAM Symposium on Discrete Algorithms. Kyoto, Japan (presentation).*

January 2012 *14th Workshop on Algorithm Engineering and Experiments. Kyoto, Japan.*

August 2011 *12th International Workshop on Algorithms and Data Structures. Polytechnic Institute of New York University, Brooklyn, NY, USA.*

June 2011 *3rd Workshop on Massive Data Algorithmics. Paris, France.*

January 2011 *22nd Annual ACM-SIAM Symposium on Discrete Algorithms. San Francisco, CA, USA.*

January 2011 *13th Workshop on Algorithm Engineering and Experiments. San Francisco, CA, USA.*

September 2010 *18th Annual European Symposium on Algorithms. Liverpool, United Kingdom (presentation).*

June 2010 *2nd Workshop on Massive Data Algorithmics. Snowbird, Utah, USA (presentation).*

January 2010 *21st Annual ACM-SIAM Symposium on Discrete Algorithms. Austin, TX, USA.*

January 2010 *11th Workshop on Algorithm Engineering and Experiments. Austin, TX, USA.*

September 2009 *17th Annual European Symposium on Algorithms. Copenhagen, Denmark.*

June 2009 *25th Annual ACM Symposium on Computational Geometry. Aarhus, Denmark.*

June 2009 *Workshop on Massive Data Algorithmics. Aarhus, Denmark.*

March 2009 *Current Trends in Algorithms, Complexity Theory, and Cryptography. Tsinghua University, Beijing, China (presentation).*

August 2008 *MADALGO Summer School on Cache Oblivious Algorithms. MADALGO, Aarhus University, Denmark (invited speaker).*

June 2008 *International PhD School in Algorithms for Advanced Processor Architectures. IT University of Copenhagen, Denmark (invited speaker, presentation).*

January 2008 *19th Annual ACM-SIAM Symposium on Discrete Algorithms. San Francisco, CA, USA.*

January 2008 *10th Workshop on Algorithm Engineering and Experiments. San Francisco, CA, USA.*

September–October 2007 *3rd Bertinoro Workshop on Algorithms and Data Structures. Bertinoro, Forlì, Italy (presentation).*

August 2007 *32nd International Symposium on Mathematical Foundations of Computer Science. Cesky Krumlov, Czech Republic (presentation).*

- January 2007 *18th Annual ACM-SIAM Symposium on Discrete Algorithms*. New Orleans, LA, USA.
- January 2007 *9th Workshop on Algorithm Engineering and Experiments*. New Orleans, LA, USA.
- September 2006 *14th Annual European Symposium on Algorithms*. Zürich, Switzerland (presentation).
- June 2006 *Workshop on Space-Conscious Algorithms*. Bertinoro, Forlì, Italy (presentation).
- July 2006 *10th Scandinavian Workshop on Algorithm Theory*. Riga, Latvia.
- January 2006 *17th Annual ACM-SIAM Symposium on Discrete Algorithms*. Miami, Florida, USA (presentation).
- January 2006 *8th Workshop on Algorithm Engineering and Experiments*. Miami, Florida, USA.
- October 2005 *13th Annual European Symposium on Algorithms (ALGO 2005)*. Palma de Mallorca, Mallorca, Spain.
- May–June 2005 *Algorithms and Data Structures*. Bertinoro, Forlì, Italy (presentation).
- January 2005 *16th Annual ACM-SIAM Symposium on Discrete Algorithms*. Vancouver, British Columbia, Canada.
- September 2004 *12th Annual European Symposium on Algorithms (ALGO 2004)*. Bergen, Norway.
- July 2004 *Dagstuhl Seminar on “Cache-Oblivious and Cache-Aware Algorithms”*. Dagstuhl, Germany.
- July 2004 *9th Scandinavian Workshop on Algorithm Theory*. Louisiana Museum of Modern Art, Humlebæk, Denmark (invited speaker, presentation).
- January 2004 *6th Workshop on Algorithm Engineering and Experiments*. New Orleans, Louisiana, USA (presentation).
- January 2004 *15th Annual ACM-SIAM Symposium on Discrete Algorithms*. New Orleans, Louisiana, USA.
- June 2003 *Algorithms and Data Structures*. Bertinoro, Forlì, Italy (presentation).
- January 2003 *5th Workshop on Algorithm Engineering and Experiments*. Baltimore, Maryland, USA.
- January 2003 *14th Annual ACM-SIAM Symposium on Discrete Algorithms*. Baltimore, Maryland, USA (presentation).
- November 2002 *13th Annual International Symposium on Algorithms and Computation*. Vancouver, British Columbia, Canada (presentation).
- November 2002 *43rd Annual Symposium on Foundations of Computer Science*. Vancouver, British Columbia, Canada.
- November 2002 *Workshop on Algorithms and Models for the Web-Graph*. Vancouver, British Columbia, Canada.
- May 2002 *34th Annual ACM Symposium on Theory of Computing*. Montréal, Québec, Canada.
- August 2001 *ALGO 2001 (9th Annual European Symposium on Algorithms, 5th Workshop on Algorithm Engineering, and 1st Workshop on Algorithms in BioInformatics)*. Aarhus, Denmark.

- July 2001 *33rd Annual ACM Symposium on Theory of Computing*. Hersonissos, Crete, Greece (presentation).
- July 2001 *28th International Colloquium on Automata, Languages, and Programming*. Hersonissos, Crete, Greece.
- September 2000 *Alcom-FT Meeting*. Saarbrücken, Germany.
- July 2000 *7th Scandinavian Workshop on Algorithm Theory*. Bergen, Norway.
- September 2000 *Dagstuhl Seminar on “Experimental Algorithmics”*. Dagstuhl, Germany.
- December 1999 *19th Annual Conference on Foundations of Software Technology and Theoretical Computer Science*. Chennai, India.
- December 1999 *Workshop on Advances in Data Structures, preworkshop of the 19th Annual Conference on Foundations of Software Technology and Theoretical Computer Science*. Chennai, India (invited speaker, presentation).
- January 1999 *10th Annual ACM-SIAM Symposium on Discrete Algorithms*. Baltimore, Maryland, USA.
- January 1999 *1st Workshop on Algorithm Engineering and Experimentation*. Baltimore, Maryland, USA.
- July 1998 *6th Scandinavian Workshop on Algorithm Theory*. Stockholm, Sweden (presentation, presentation).
- May 1998 *DIMACS Workshop on External Memory Algorithms and Visualization*. Piscataway, New Jersey, USA (presentation).
- January 1998 *9th Annual ACM-SIAM Symposium on Discrete Algorithms*. San Francisco, California, USA (presentation).
- January 1998 *ALCOM-IT Review Meeting*. Saarbrücken, Germany.
- September 1997 *11th International Workshop on Distributed Algorithms*. Saarbrücken, Germany.
- September 1997 *International School On Distributed Computing and Systems - ALCOM-IT SODICS*. Saarbrücken, Germany.
- May 1997 *Algorithms for Future Technologies - ALTEC’97*. Saarbrücken, Germany.
- February–March 1997 *14th Annual Symposium on Theoretical Aspects of Computer Science*. Lübeck, Germany (presentation).
- July 1996 *5th Scandinavian Workshop on Algorithm Theory*. Reykjavik, Iceland (presentation, presentation).
- January 1996 *7th Annual ACM-SIAM Symposium on Discrete Algorithms*. Atlanta, Georgia, USA (presentation).
- August 1995 *4th International Workshop on Algorithms and Data Structures*. Kingston, Ontario, Canada (presentation).
- March 1995 *12th Annual Symposium on Theoretical Aspects of Computer Science*. München, Germany.
- September 1994 *2nd Annual European Symposium on Algorithms*. Utrecht, The Netherlands.
- August 1994 *Complexity Theory: Present and Future*. Aarhus, Denmark.
- July 1994 *4th Scandinavian Workshop on Algorithm Theory*. Aarhus, Denmark.

September–October 1993 *1st Annual European Symposium on Algorithms*. Bad Honnef, Germany.

Talks

- February 2012 *Closing a Classical Data Structure Problem: Strict Fibonacci Heaps*. Opfølgingsmøde med Danmarks Grundforskningsfond. MADALGO, Department of Computer Science, Aarhus University.
- February 2012 *Closing a Classical Data Structure Problem: Strict Fibonacci Heaps*. Annual MADALGO Review Meeting. Aarhus, Denmark.
- November 2011 *Dynamic Planar Range Maxima Queries*. LIAFA, Université Paris Diderot, Paris. Paris, France.
- October 2011 *Integer Representations towards Efficient Counting in the Bit Probe Model*. University of Ljubljana. Ljubljana, Slovenia.
- October 2011 *Dynamic Planar Range Maxima Queries*. University of Primorska. Koper, Slovenia.
- August 2011 *Sådan virker Google*. Ungdommens Naturvidenskabelige Forening i Aarhus (UNF). Aarhus Universitet. Aarhus, Denmark.
- June 2011 *Integer Representations towards Efficient Counting in the Bit Probe Model*. MADALGO, Department of Computer Science, Aarhus University. Aarhus, Denmark.
- April 2011 *Sådan virker Google*. Ungdommens Naturvidenskabelige Forening i København (UNF). IT Universitet. København, Denmark.
- March 2011 *Binære Tællere*. Verdens Kedeligste Foredrag (The World's Most Boring Lecture). Tågekammeret, Aarhus Universitet. Aarhus.
- November 2010 *Udfordringer ved håndtering af massive datamængder: Forskingen ved Grundforskningscenteret for Massive Data Algoritihmics Data Algorithmics*. Møde i Universitets-Samvirket Århus. Aarhus Universitet. Statsbiblioteket, Århus.
- November 2010 *Massive Data Algorithmics*. Forskningsdag for Datamatikerlærere. Erhvervsakademiet Lillebælt. Vejle.
- October 2010 *External Memory Indexing Structures*. Dansk Selskab for Datalogi. Copenhagen Business School. Frederiksbjerg.
- February–March 2010 *Time-Space Trade-Offs for 2D Range Minimum Queries*. Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
- October 2009 *Algorithms: Matrices and Graphs*. MasterClass in Mathematics. ScienceTalenter. Mærsk Mc-Kinney Møller Videncenter, Sorø, Denmark.
- September 2009 *Internetsøgemaskiner*. Ungdommens Naturvidenskabelige Forening i Aalborg (UNF). Aalborg Universitet. Ålborg, Denmark.
- September 2009 *MADALGO*. MasterClass Teacher Meeting. ScienceCenter. Mærsk Mc-Kinney Møller Videncenter, Sorø, Denmark.
- June 2008 *Algorithms and Data Structures for Faulty Memory*. Computer Science Day. Department of Computer Science, Aarhus University. Aarhus.
- January 2008 *Massive Data Algorithmics*. Danske Bank, Faglig Dag. Danske Bank. Aarhus.

- May 2007 *Cache-Oblivious and External Memory Algorithms: Theory and Experiments*. Oberwolfach Seminar on “Algorithm Engineering”. Oberwolfach, Germany.
- February 2007 *Internetsøgemaskiner*. Ungdommens Naturvidenskabelige Forening i Ålborg (UNF). Aalborg Universitet. Ålborg, Denmark.
- October 2006 *Skewed Binary Search Trees*. Department of Computer Science, University of Copenhagen. Copenhagen, Denmark.
- February–March 2006 *Skewed Binary Search Trees*. Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
- December 2004 *Internetsøgemaskiner*. Ungdommens Naturvidenskabelige Forening i Aarhus (UNF). Aarhus Universitet. Aarhus, Denmark.
- November 2004 *Søgemaskiner*. Udviklerkonference. Danske Bank. Brabrand, Denmark.
- May 2004 *Algorithms and Data Structures for Hierarchical Memory*. Opfølgingsmøde med Danmarks Grundforskningsfond. BRICS, Department of Computer Science, Aarhus University.
- April 2003 *Cache Oblivious Searching and Sorting*. IT University of Copenhagen. Copenhagen, Denmark.
- January 2003 *Søgemaskiner på Internettet (with Rolf Fagerberg)*. Datalogforeningen. Department of Computer Science, Aarhus University.
- October 2002 *BRICS Research Activities - Algorithms*. BRICS Retreat. Sandbjerg, Denmark.
- February–March 2002 *Optimal Finger Search Trees in the Pointer Machine*. Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
- October 2001 *Cache Oblivious Search Trees via Trees of Small Height*. Computer Technology Institute. Patras, Greece.
- September 2001 *Cache Oblivious Search Trees via Trees of Small Height*. ALCOM-FT Annual Review Meeting. Rome, Italy.
- January 2001 *Udvikling og Implementering af Ombrydningsalgoritmer - Et projekt med CCI Europe*. Opfølgingsmøde med Danmarks Grundforskningsfond. BRICS, Department of Computer Science, Aarhus University.
- November 2000 *Optimal Static Range-Reporting in One Dimension*. BRICS, Department of Computer Science, Aarhus University. Aarhus, Denmark.
- October 2000 *BRICS Research Activities - Algorithms*. BRICS Retreat. Sandbjerg, Denmark.
- February–March 2000 *Dynamic Convex Hull*. Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
- January 1999 *Level-Balanced B-Trees*. Department of Computer Science, Duke University. Durham, North Carolina.
- August 1998 *Level-Rebuilt B-Trees*. Theory and Practice of Algorithms for Problems Involving Massive Data Sets. BRICS, Department of Computer Science, Aarhus University.
- March 1998 *Worst-Case Efficient External-Memory Priority Queues*. Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
- November 1997 *Finger Search Trees with Constant Insertion Time*. Istituto di Elaborazione della Informazione, CNR, Pisa. Pisa, Italy.

August 1997	<i>Finger Search Trees with Constant Insertion Time.</i> Oberwolfach Seminar on “Effiziente Algorithmen”. Oberwolfach, Germany.
February 1997	<i>Predecessor Queries in Dynamic Integer Sets.</i> Max-Planck-Institut für Informatik. Saarbrücken, Germany.
September 1996	<i>Approximate dictionary queries.</i> BRICS, Department of Computer Science, Aarhus University. Aarhus, Denmark.
September 1996	<i>Predecessor Queries in Dynamic Integer Sets.</i> BRICS, Department of Computer Science, Aarhus University. Aarhus, Denmark.
March 1996	<i>Priority Queues on Parallel Machines.</i> BRICS, Department of Computer Science, Aarhus University. Aarhus, Denmark.
February–March 1996	<i>Priority Queues on Parallel Machines.</i> Dagstuhl Seminar on “Data Structures”. Dagstuhl, Germany.
September 1995	<i>Fast Meldable Priority Queues.</i> Max-Planck-Institut für Informatik. Saarbrücken, Germany.
August 1995	<i>Priority Queues with Good Worst Case Performance.</i> Toronto University. Toronto, Ontario, Canada.
May 1994	<i>Finger Search Trees.</i> BRICS Strategy Workshop. BRICS, Department of Computer Science, Aarhus University. Hjørring, Denmark.

Scientific Visits

November 2011	Andy Brodtknik, University of Primorska & University of Ljubljana. Koper & Ljubljana, Slovenia.
November 2009	Riko Jacob, Technische Universität München. Munich, Germany.
May 2002	Michiel Smid, School of Computer Science, Carleton University. Ottawa, Ontario, Canada.
October 2001	Athanasios K. Tsakalidis, Computer Technology Institute. Patras, Greece.
January 1999	Lars Arge, Department of Computer Science, Duke University. Durham, North Carolina, USA.
January 1999	Jyrki Katajainen, Department of Computer Science, University of Copenhagen. Copenhagen, Denmark.
May 1998	Ian Munro, Department of Computer Science, University of Waterloo. Waterloo, Ontario, Canada.
May 1998	Lars Arge, Department of Computer Science, Duke University. Durham, North Carolina, USA.
November 1997	M. Cristina Pinotti, Istituto di Elaborazione della Informazione, CNR, Pisa. Pisa, Italy.
January 1996	Haim Kaplan, Princeton University/DIMACS. Princeton, NJ, USA.
September 1995–May 1996	Kurt Mehlhorn, Max-Planck-Institut für Informatik. Saarbrücken, Germany.
August 1995	Peter Bro Miltersen, Toronto University. Toronto, Ontario, Canada.

Teaching

- May 2012 Lecturer, *Lecture on Google and exercises on algorithms for high-school students (from Silkeborg Gymnasium and Rødkilde Gymnasium)*. Department of Computer Science, Aarhus University.
- Spring 2012 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2012 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- October 2011 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2011 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Fall 2011 (Quarters 1+2) Lecturer, *Advanced Algorithms: Data Structures*. Department of Computer Science, Aarhus University.
- Spring 2011 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2011 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- October 2010 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2010 (Quarters 1+2) Lecturer, *Computational Geometry*. Department of Computer Science, Aarhus University.
- Fall 2010 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Spring 2010 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2010 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- October 2009 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2009 (Quarters 1+2) Lecturer, *Advanced Algorithms: Data Structures*. Department of Computer Science, Aarhus University.
- Fall 2009 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Spring 2009 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2009 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- October 2008 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2008 (Quarters 1+2) Lecturer, *Computational Geometry*. Department of Computer Science, Aarhus University.
- Fall 2008 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Spring 2008 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.

- Spring 2008 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- November 2007 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2007 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Fall 2007 (Quarters 1+2) Lecturer, *Advanced Algorithms: Data Structures*. Department of Computer Science, Aarhus University.
- Spring 2007 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2007 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- November 2006 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2006 (Quarters 1+2) Lecturer, *Computational Geometry* (with Lars Arge). Department of Computer Science, Aarhus University.
- Fall 2006 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Spring 2006 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2006 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- November 2005 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2005 (Quarter 1+2) Lecturer, *Advanced Algorithms: Data Structures* (with Lars Arge). Department of Computer Science, Aarhus University.
- Fall 2005 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Spring 2005 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2005 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- February 2005 Lecturer, *Exercise class on algorithms for high-school students (Gymnasiepraktik)*. Department of Computer Science, Aarhus University.
- Fall 2004 Lecturer, *Computer Science in Perspective (topic Algorithms and Complexity, 1 week)*. Department of Computer Science, Aarhus University.
- Fall 2004 (Quarter 1+2) Lecturer, *Computational Geometry* (with Lars Arge). Department of Computer Science, Aarhus University.
- Spring 2004 (Quarter 4) Lecturer, *Algorithms and Data Structures 2*. Department of Computer Science, Aarhus University.
- Spring 2004 (Quarter 3) Lecturer, *Algorithms and Data Structures 1*. Department of Computer Science, Aarhus University.
- Autumn 2003 Lecturer, *External Memory Algorithms and Data Structures* (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
- Spring 2003 Lecturer, *Algorithms and Data Structures* (with Erik Meineche Schmidt). Department of Computer Science, Aarhus University.

Autumn 2002	Lecturer, <i>Algorithms and Data Structures</i> (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
Autumn 2002	Lecturer, <i>Algorithms for Web Indexing and Searching</i> (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
Spring 2002	Lecturer, <i>Algorithms and Data Structures</i> (with Erik Meineche Schmidt). Department of Computer Science, Aarhus University.
Autumn 2001	Lecturer, <i>External Memory Algorithms and Data Structures</i> (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
Spring 2001	Three lectures on I/O-algorithms, <i>Advanced Algorithms (Stephen Alstrup and Theis Rauhe)</i> . IT University of Copenhagen.
Spring 2001	Lecturer, <i>Algorithms study group</i> . BRICS International PhD School, Department of Computer Science, Aarhus University.
Autumn 2000	Lecturer, <i>External Memory Algorithms and Data Structures</i> (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
Autumn 1999	Lecturer, <i>External Memory Algorithms and Data Structures</i> (with Rolf Fagerberg). Department of Computer Science, Aarhus University.
Autumn 1999	Lecturer, <i>Algorithms</i> (with Rolf Fagerberg). BRICS International PhD School, Department of Computer Science, Aarhus University.
Autumn 1998	Lecturer, <i>Algorithms</i> . BRICS International PhD School, Department of Computer Science, Aarhus University.
May 1998	Lecturer, <i>MPII Advanced Mini Course: Functional Data Structures</i> . Max-Planck-Institut für Informatik.
Autumn 1996	Lecturer, <i>Algorithms and Data Structures: A course for students at the Engineering College of Aarhus</i> . Department of Computer Science, Aarhus University.
Spring 1995	Administrator and Teaching Assistant (Instruktør), <i>dADS: Algorithms and Data Structures</i> . Department of Computer Science, Aarhus University.
Spring 1994	Teaching Assistant (Instruktør), <i>dAlg: Algorithmic</i> . Department of Computer Science, Aarhus University.
Autumn 1993	Teaching Assistant (Instruktør), 2 classes, <i>dOvs: Compiler Construction</i> . Department of Computer Science, Aarhus University.
Spring 1993	Teaching Assistant (Instruktør), <i>dAlg: Algorithmic</i> . Department of Computer Science, Aarhus University.
Autumn 1992	Teaching Assistant (Instruktør), <i>dProg2: Object Oriented Programming</i> . Department of Computer Science, Aarhus University.

Advising

Ph.D.

February 2011–present	Ph.D. advisor for Jesper Asbjørn Sindahl Nielsen.
February 2009–present	Ph.D. advisor for Casper-Kejlberg Rasmussen.
August 2008–present	Ph.D. advisor for Jakob Truelsen.
May 2008–July 2011	Ph.D. advisor for Pooya Davoodi. Thesis: <i>Data Structures: Range Queries and Space Efficiency</i> (slides).
February 2008–present	Ph.D. advisor for Mark Greve.

- August 2007–September 2011 Ph.D. advisor for Kostantinos Tsakalidis. Thesis: *Dynamic Data Structures: Orthogonal Range Queries and Update Efficiency* (slides).
- February 2006–February 2010 Ph.D. advisor for Allan Grønlund Jørgensen (Siemens Wind Power A/S). Thesis: *Data Structures: Sequence Problems, Range Queries, and Fault Tolerance* (slides).
- September 2005–November 2009 Ph.D. advisor for Martin Olsen (Aarhus University, Institute of Business and Technology). Thesis: *Link building* (slides).
- August 2004–October 2007 Ph.D. advisor for Johan Nilsson (Octoshape). Thesis: *Combinatorial algorithms for graphs and partially ordered sets*.
- August 2003–September 2007 Ph.D. advisor for Gabriel Moruz (Johann Wolfgang Goether-Universität Frankfurt). Thesis: *Hardware Aware Algorithms and Data Structures* (slides).
- February 2001–February 2002 Ph.D. advisor for Riko Jacob (Technische Universität München). Thesis: *Dynamic Planar Convex Hull* (slides).

M.Sc.

- April 2012–present M.Sc. advisor for Mikkel Engelbrecht Hougaard.
- September 2011–March 2012 M.Sc. advisor for Andreas Koefoed-Hansen (Aarhus University). Thesis: *Representations for Path Finding in Planar Environments*.
- February–September 2010 M.Sc. advisor for David Kjær (Milestone Systems). Thesis: *Range Median Algorithms*.
- September 2009–September 2010 M.Sc. advisor (joint with Mohammad Ali Abam) for Jonas Suhr Christensen. Thesis: *Experimental Study of Kinetic Geometric t-Spanner Algorithms*.
- January 2009–present M.Sc. advisor for Dung Dinh Vu.
- April 2008–April 2009 M.Sc. advisor for Henrik Bitsch Kirk (Statsbiblioteket). Thesis: *Searching with Dynamic Optimality: In Theory and Practice*.
- January 2008–February 2009 M.Sc. advisor for Krzysztof Piatkowski (Peopleway). Thesis: *Implementering og udvikling af maksimum delsum algoritmer*.
- February–December 2008 M.Sc. advisor for Claus Andersen (Translucent). Thesis: *An optimal minimum spanning tree algorithm*.
- September 2007–March 2008 M.Sc. advisor for Jonas Maturana Larsen (Trifork) and Michael Nielsen (Plushost). Thesis: *En undersøgelse af algoritmer til løsning af generalized movers problem i 3D*.
- September 2006–August 2007 M.Sc. advisor for Thomas Rasmussen. Thesis: *Evaluering af en skæringsalgoritme for Bezier kurver i planen*.
- September 2006–March 2007 M.Sc. advisor for Bjørn Casper Torndahl and Bo Søndergaard Carstensen. Thesis: *Cache Oblivious String Dictionaries*.
- March 2006–August 2007 M.Sc. advisor for Lasse Østerlund Gram (Marcantec). Thesis: *Robusthed af netværk - med focus på scale-free grafer*.
- July 2005–January 2007 M.Sc. advisor for Kristian Dorph-Petersen (Danske Bank). Thesis: *Praktisk brug af dynamisk sampling i data streams*.
- February 2005–June 2006 M.Sc. advisor for Dennis Søgaard (Accenture). Thesis: *Minimising the Number of Collision Tests in Probabilistic Road Maps using Approximations in a Binary Connection Strategy*.

- January 2005–January 2006 M.Sc. advisor for Jesper Buch Hansen (Danske Bank). Thesis: *Computing the Visibility Graph of Points Within a Polygon*.
- February 2004–May 2006 M.Sc. advisor for Morten Laustsen. Thesis: *Orthogonal Range Counting in The Cache Oblivious Model*.
- August 2002–January 2004 M.Sc. advisor for Louise Skouboe Bjerg (Systematic Software Engineering A/S) and Lone Asferg Laursen. Thesis: *Approximative afstande i planare grafer*.
- August 2002–June 2003 M.Sc. advisor (joint with Rolf Fagerberg) for Kristoffer Vinther (Bang & Olufsen). Thesis: *Engineering Cache-Oblivious Sorting Algorithms*.
- February 2000–January 2001 M.Sc. advisor for Kristian Høgsberg Kristensen (Intel). Thesis: *Automated Layout of Classified Ads*.

Other

- February–September 2000 Project advisor for Jakob Skyberg. Title: *Implementation of three Convex Hull algorithms in Java*.

Service

To the profession

- April 2010–present Member of the Computer Science Group (Group 38) of the Danish Bibliometric Research Indicator.
- January 2010–present Member of the Scientific Advising Group for the ESS Data Management Centre.
- March–October 2010 Member of the Scientific Panel for e-Science, the Danish National Roadmap for Research Infrastructures.
- March 2006 Responsible for the electronic submission server and the electronic server for the program committee of the 10th Scandinavian Workshop on Algorithm Theory, Riga, Latvia.
- September 2000–January 2004 Responsible for the electronic server handling ALCOM-FT technical reports.
- July 1999 Co-responsible for the electronic submission server and the electronic server for the program committee of the 3rd Workshop on Algorithm Engineering, London, UK.
- August 1997 Editor of the Oberwolfach report “Tagungsbericht 29/1997 – Effiziente Algorithmen”.

Department of Computer Science, Aarhus University

- November–December 2009 Chair of assessment committee for associate professor position.
- June 2006 Organizing chair of the Summer School on Game Theory in Computer Science.
- July 2003 Member of the organizing committee of the 18th IEEE Conference on Computational Complexity.
- June–July 2002 Organizing chair of the EEF Summer School on Massive Data Sets (55 participants), BRICS, University of Aarhus, Denmark.

- August 2001 Organizing chair of ALGO 2001 (178 participants) that covered the jointly conferences and workshops: 9th Annual European Symposium on Algorithms, 5th Workshop on Algorithm Engineering, 1st Workshop on Algorithms in BioInformatics, and 2nd International Workshop on Approximation and Randomized Algorithms in Communication Networks.
- January 1999–December 2005 Co-organizer of the BRICS mini-courses.
- December 2008–present Member of the departments office-committee.
- February 2002–November 2009 Member of the departments web-committee.
- May 1999–May 2000 Member of the departments web-committee.
- August 1998–present Co-organizer of the algorithms and complexity theory seminars.

Max-Planck-Institut für Informatik

- August 1998 Member of the organizing committee of the 2nd Workshop on Algorithm Engineering.
- January–July 1998 Member of the travel committee.

Examiner

- March 2012 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Algorithms and Complexity (IMADA DM508, 5 ECTS), Joan Boyar (27 students).
- January 2012 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. I/O-Efficient Algorithms and Data Structures (IMADA DM207, 10 ECTS), Rolf Fagerberg (4 students).
- January 2012 Course examiner, Department of Computer Science, Aarhus University. Programming 2 (dProg 2, Q2 2011, 5 ECTS), Gudmund Skovbjerg Frandsen (42 students).
- September 2011 M.Sc. thesis examiner, Jens Henrik Hertz and Martin Ancher Müller Neiiendam, DTU Informatik, Technical University of Denmark. Advisor Philip Bille and Inge Li Gørtz.
- August 2011 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Algoritmer og Datastrukturer (IMADA DM507, 37 ECTS), Lene Monrad Favrholt (4 students).
- August 2011 M.Sc. thesis examiner, Hjalte Wedel Vildhøj and Søren Vind, DTU Informatik, Technical University of Denmark. Advisor Philip Bille and Inge Li Gørtz.
- June 2011 Course examiner, Department of Computer Science, Aarhus University. IO Algorithms (Q3+Q4 2011, 10 ECTS), Lars Arge (21 students).
- June 2011 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Algoritmer og Datastrukturer (IMADA DM507, 37 ECTS), Lene Monrad Favrholt (11 students).
- April 2011 M.Sc. thesis examiner, Jakob Lund, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Rolf Fagerberg and Kim Skak Larsen.

- March 2011 Course examiner, Department of Computer Science, Aarhus University. Functional-Programming Techniques (dTFP, Q3 2011, 5 ECTS), Olivier Danvy (10 students).
- March 2011 Course examiner, Department of Computer Science, Aarhus University. Introduction to Functional Programming (dIFP Q1 2010, 5 ECTS), Olivier Danvy (1 student).
- January 2011 Course examiner, Department of Computer Science, Aarhus University. Programming 2 (dProg 2, Q2 2010, 5 ECTS), Gudmund Skovbjerg Frandsen (35 students).
- January 2011 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Computer Game Programming III: Physics (IMADA DM815, 5 ECTS), Rolf Fagerberg (11 students).
- January 2011 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Discrete Mathematics (IMADA MM524-DM527, 5 ECTS), Daniel Merkle (5 students).
- October 2010 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Discrete Mathematics (IMADA MM524-DM527, 5 ECTS), Daniel Merkle (70 students).
- October 2010 Course examiner, Department of Computer Science, Aarhus University. Introduction to Functional Programming (dIFP Q1 2010, 5 ECTS), Olivier Danvy (20 students).
- May 2010 M.Sc. thesis examiner, Nikolaj Bytsø, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Rolf Fagerberg.
- April 2010 Course examiner, Department of Computer Science, Aarhus University. Reliable Software Architectures (5 ECTS), Henrik Bærbak Christensen (4 students).
- January 2010 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. I/O-Efficient Algorithms and Data Structures (IMADA DM207, 10 ECTS), Rolf Fagerberg (3 students).
- January 2010 Course examiner, Department of Computer Science, Aarhus University. Programming 2 (dProg 2, Q2 2009, 5 ECTS), Gudmund Skovbjerg Frandsen (28 students).
- October 2009 Course examiner, Department of Computer Science, Aarhus University. Introduction to Programming (dIntProg, Q1 2009, 5 ECTS), Michael Caspersen.
- August 2009 M.Sc. thesis examiner, Thomas Nordahl Pedersen, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Lene Monrad Favrholt.
- August 2009 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Algorithms and Data Structures (IMADA DM507, 10 ECTS), Lene Monrad Favrholt (5 students).
- January 2009 Course examiner, Department of Computer Science, Aarhus University. Programming 2 (dProg 2, Q2 2008, 5 ECTS), Gudmund Skovbjerg Frandsen (78 students).

- October 2008 Course examiner, Department of Computer Science, Aarhus University. Introduction to Programming (dIntProg, Q1 2008, 5 ECTS), Michael Caspersen.
- June 2008 Course examiner, Department of Computer Science, Aarhus University. IO Algorithms (Q3+Q4 2008, 10 ECTS), Lars Arge (17 students).
- June 2008 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. I/O-Efficient Algorithms and Data Structures (IMADA DM808, 10 ECTS), Rolf Fagerberg (4 students).
- June 2008 M.Sc. thesis examiner, Torsten Bonde Christiansen, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Rolf Fagerberg.
- January 2008 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Algorithms for Web Indexing and Searching (IMADA DM79, 10 ECTS), Rolf Fagerberg (7 students).
- January 2008 Course examiner, Department of Computer Science, Aarhus University. Programming 2 (dProg 2, Q2 2007, 5 ECTS), Gudmund Skovbjerg Frandsen (37 students).
- June 2007 Course examiner, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Topics in Algorithmics (IMADA DM69, 10 ECTS), Lene Monrad Favrhøldt (4 students).
- June 2007 Course examiner, Department of Computer Science, Aarhus University. IO Algorithms (Q3+Q4 2007, 10 ECTS), Lars Arge (19 students).
- October 2006 Course examiner, Department of Computer Science, University of Copenhagen. The 6th STL Workshop, Jyrki Katajainen (6 students).
- October 2006 M.Sc. thesis examiner, Martin Ehmsen, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Kim Skak Larsen.
- July 2006 M.Sc. thesis examiner, Jacob Allerelli, Department of Mathematics and Computer Science, University of Southern Denmark, Odense. Advisor Rolf Fagerberg.
- June 2006 Course examiner, Department of Computer Science, Aarhus University. IO Algorithms (Q3+Q4 2006, 10 ECTS), Lars Arge (11 students).
- July 2005 Course examiner, Department of Computer Science, Aarhus University. Dynamic Algorithms (Q4 2005, 5 ECTS), Gudmund Skovbjerg Frandsen (21 students).
- June 2005 Course examiner, Department of Computer Science, Aarhus University. IO Algorithms (Q3+Q4 2005, 10 ECTS), Lars Arge (12 students).
- July 2004 Course examiner, Department of Computer Science, Aarhus University. Dynamic Algorithms (Q4 2004, 5 ECTS), Gudmund Skovbjerg Frandsen (17 students).

PhD Committee

November 2011	PhD committee member, Djamel Belazzougui, LIAFA, Université Paris Diderot–Paris 7, Paris.
October 2011	PhD committee member, Andrea Campagna, IT University of Copenhagen.
December 2008	PhD committee member, Deepak Ajwani, Max Planck Institute for Computer Science, Saarbrücken, Germany.
August 2008	PhD committee member, Karim Douieb, Université Libre de Bruxelles, Belgium.
September 2006	PhD committee member, Anders Gidestam, Chalmers Technical University, Goteborg, Sweden.

Journal Review

- ACM Journal of Experimental Algorithmics, 1998, 2000, 2012.
- Algorithmica, 1998, 1999, 2000, 2001, 2002, 2004, 2005, 2008, 2010, 2011, 2012.
- Applicable Algebra in Engineering, Communication and Computing, 2003.
- ETRI Journal, 2004.
- Higher-Order and Symbolic Computation, 1999, 2003.
- Information Processing Letters, 2000, 2002, 2003, 2008, 2009.
- Information and Computation, 1998.
- International Journal of Computational Geometry and Applications, 2011, 2012.
- Journal of Algorithms, 1998.
- Journal of Algorithms - Algorithms in Cognition, Informatics and Logic, 2008.
- Journal of Automata, Languages and Combinatorics, 2003.
- Journal of Discrete Algorithms, 2000, 2011.
- Journal of Functional Programming, 1998.
- Journal of Parallel and Distributed Computing, 1997, 1998.
- Journal of Systems and Software, 2003.
- Journal of the Association for Computing Machinery, 1997.
- Nordic Journal of Computing, 1999.
- SIAM Journal of Computing, 2004, 2007.
- Software: Practice and Experience, 2006.
- The Computer Journal, 2005.
- Theoretical Computer Science, 2000, 2004, 2006.

Conference Referee

- 2012 53th Annual Symposium on Foundations of Computer Science.
 39th International Colloquium on Automata, Languages, and Programming.
 31st ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems.
 23rd International Workshop on Combinatorial Algorithms.
 23rd Annual ACM-SIAM Symposium on Discrete Algorithms.
 14th Workshop on Algorithm Engineering and Experiments.

- 10th Latin American Symposium on Theoretical Informatics.
- 2011 6th International Computer Science Symposium in Russia.
43rd Annual ACM Symposium on Theory of Computing.
3rd Workshop on Massive Data Algorithmics.
38th International Colloquium on Automata, Languages, and Programming.
30th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems.
22nd International Workshop on Combinatorial Algorithms.
22nd Annual ACM-SIAM Symposium on Discrete Algorithms.
10th International Symposium on Experimental Algorithms.
- 2010 9th Latin American Symposium on Theoretical Informatics.
21th Annual International Symposium on Algorithms and Computation.
21st Annual ACM-SIAM Symposium on Discrete Algorithms.
12th Workshop on Algorithm Engineering and Experiments.
12th Scandinavian Workshop on Algorithm Theory.
- 2009 8th International Symposium on Experimental Algorithms.
50th Annual Symposium on Foundations of Computer Science.
41st Annual ACM Symposium on Theory of Computing.
36th International Colloquium on Automata, Languages, and Programming.
21st ACM Symposium on Parallelism in Algorithms and Architectures.
20th Annual International Symposium on Algorithms and Computation.
20th Annual ACM-SIAM Symposium on Discrete Algorithms.
1st Workshop on Massive Data Algorithmics.
17th Annual European Symposium on Algorithms.
11th Workshop on Algorithm Engineering and Experiments.
11th International Workshop on Algorithms and Data Structures.
- 2008 IPDPS 2008 - IEEE International Parallel & Distributed Processing Symposium.
Computability in Europe 2008 - Logic and Theory of Algorithms.
7th International Workshop on Experimental Algorithms.
40th Annual ACM Symposium on Theory of Computing.
19th Annual Symposium on Combinatorial Pattern Matching.
11th Scandinavian Workshop on Algorithm Theory.
- 2007 International Workshop on Algorithmic Topics in Constraint Programming (cancelled).
6th International Workshop on Experimental Algorithms.
34th International Colloquium on Automata, Languages, and Programming.
27th Conference on Foundations of Software Technology and Theoretical Computer Science.
24th Annual Symposium on Theoretical Aspects of Computer Science.
18th Annual International Symposium on Algorithms and Computation.
18th Annual ACM-SIAM Symposium on Discrete Algorithms.
15th Annual European Symposium on Algorithms.
10th International Workshop on Algorithms and Data Structures.
- 2006 47th Annual Symposium on Foundations of Computer Science.

- 33rd International Colloquium on Automata, Languages, and Programming.
31st International Symposium on Mathematical Foundations of Computer Science.
25th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems.
17th Annual Symposium on Combinatorial Pattern Matching.
17th Annual ACM-SIAM Symposium on Discrete Algorithms.
14th Annual European Symposium on Algorithms.
10th Scandinavian Workshop on Algorithm Theory.
- 2005 9th International Workshop on Algorithms and Data Structures.
7th Workshop on Algorithm Engineering and Experiments.
4th International Workshop on Efficient and Experimental Algorithms.
37th Annual ACM Symposium on Theory of Computing.
32nd International Colloquium on Automata, Languages, and Programming.
20th IEEE Conference on Computational Complexity.
16th Annual ACM-SIAM Symposium on Discrete Algorithms.
13th Annual European Symposium on Algorithms.
- 2004 9th Scandinavian Workshop on Algorithm Theory.
6th Latin American Symposium on Theoretical Informatics.
3rd International Conference on Fun With Algorithms.
31st International Colloquium on Automata, Languages, and Programming.
24th Conference on Foundations of Software Technology and Theoretical Computer Science.
21st Annual Symposium on Theoretical Aspects of Computer Science.
15th Annual Symposium on Combinatorial Pattern Matching.
15th Annual ACM-SIAM Symposium on Discrete Algorithms.
12th Annual European Symposium on Algorithms.
- 2003 International Conference on Software Engineering and Formal Methods.
8th International Workshop on Algorithms and Data Structures.
5th Workshop on Algorithm Engineering and Experiments.
20th Annual Symposium on Theoretical Aspects of Computer Science.
11th Annual European Symposium on Algorithms.
- 2002 8th Scandinavian Workshop on Algorithm Theory.
43rd Annual Symposium on Foundations of Computer Science.
34th Annual ACM Symposium on Theory of Computing.
13th Annual Symposium on Combinatorial Pattern Matching.
11th Euromicro Conference on Parallel Distributed and Networking based Processing, Special session on Memory Hierarchies.
10th Annual European Symposium on Algorithms.
- 2001 9th Annual European Symposium on Algorithms.
42nd Annual Symposium on Foundations of Computer Science.
28th International Colloquium on Automata, Languages and Programming.
- 2000 8th Annual European Symposium on Algorithms.
7th Scandinavian Workshop on Algorithm Theory.

- 1999 Workshop on Algorithmic Aspects of Advanced Programming Languages.
3rd Workshop on Algorithm Engineering.
19th Annual Conference on Foundations of Software Technology and Theoretical Computer Science.
16th Annual Symposium on Theoretical Aspects of Computer Science.
- 1998 6th Annual European Symposium on Algorithms.
2nd Workshop on Algorithm Engineering.
25th International Colloquium on Automata, Languages, and Programming.
18th International Conference on Foundations of Software Technology & Theoretical Computer Science.
15th Annual Symposium on Theoretical Aspects of Computer Science.
- 1996 Theory and Practice of Informatics; 23rd Seminar on Current Trends in Theory and Practice of Informatics.
ACM SIGPLAN International Conference on Functional Programming.
5th Scandinavian Workshop on Algorithm Theory.
4th Annual European Symposium on Algorithms.
- 1995 Theory and Practice of Software Development. 6th International Joint Conference CAAP/FASE.
ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation.
- 1994 4th Scandinavian Workshop on Algorithm Theory.
21st International Colloquium on Automata, Languages and Programming.