Publications:

Submitted manuscripts:

- Devroye L., **Holmgren C.** and Sulzbach H. The heavy path approach to Galton-Watson trees with an application to Apollonian networks. **arXiv:1701.02527**
- Cai X.S., Devroye L., **Holmgren C.,** and Skerman F. Cutting resilient networks. **arXiv:1804.03069**
- Albert M. **Holmgren C.,** Johansson T. and Skerman F. Embedding small digraphs and permutations in binary trees and split trees.
- C. Desmarais and **Holmgren C.** Degree distributions of generalized hooking networks**.**

Published papers:

- Angel O., Hofstad R. and **Holmgren C.** Limit laws for self-loops and multiple edges in the configuration model. In press in **Annales de l'Institut Henri Poincaré. arXiv:1603.07172**
- Cai X. S., **Holmgren C.,** Janson S., Johansson T. and Skerman F. Inversions in split trees and conditional Galton–Watson trees. In press in **Combinatorics, Probability and Computing. arXiv:1709.00216**
- Cai X. S., **Holmgren C.,** Janson S., Johansson T. and Skerman F. Inversions in split trees and conditional Galton–Watson trees. In **LIPIcs: Leibniz Internat. Proc. Inform.** 110. 15.1-15.12, 2018.
- Albert M. **Holmgren C.,** Johansson T. and Skerman F. Permutations in binary trees and split trees. In **LIPIcs: Leibniz Internat. Proc. Inform.** 110. 9.1-9.12, 2018.
- **Holmgren C., Janson S. and Silekis M.,** Multivariate normal limit laws for the numbers of fringe subtrees in m-ary search trees and preferential attachment trees. In **Electronic Journal of Combinatorics** 24 (2), 1-49, 2017.
- **Holmgren C.,** Kettle N. and Juskevicius T., Majority bootstrap percolation on G(n,p). In **Electronic Journal of Combinatorics** 24 (1), 1-32, 2017.
- **Holmgren C.** and Janson S., Fringe Trees, Crump-Mode Jagers Branching Processes and m-ary Search Trees. In **Probability Surveys** 14, 53-154, 2017.
- **Holmgren C.,** Janson S. and Sileikis M. Using Pólya urns to show normal limit laws for fringe subtrees in m-ary search trees. In proc. **Probabilistic, combinatorial and asymptotic methods for the analysis of algorithms.** 1-12, 2016.
- Björklund J., Falgas-Ravry V. and **Holmgren C.,** On percolation in one-dimensional stable Poisson graphs. In **Electronic Communications of Probability 20,** 1-6, 2015.
- **Holmgren C.** and Janson S., Limit laws for functions of fringe subtrees for binary search trees and recursive trees. In **Electronic Journal of Probability** 20, 1-51, 2015.
- **Holmgren C.** and Janson S., Asymptotic distribution of two-protected nodes in ternary search trees. In **Electronic Journal of Probability** 20, 1-20, 2015.
- Bollobás B., **Holmgren C.**, Smith P. and Uzzell A., The time of bootstrap percolation with dense initial sets. In **Annals of Probability** 42, 1337–1373, 2014.
- Addario-Berry L., Broutin N. and **Holmgren C.**, Cutting down trees with a Markov chainsaw. In **Annals of Applied Probability** 24, 2297-2339, 2014.

- Bollobás B., Gunderson K., **Holmgren C.**, Janson S. and Przykucki M. Bootstrap percolation on Galton-Watson trees. In **Electronic Journal of Probability** 19, 1-27, 2014.
- **Holmgren C.** and Janson S., Using Stein's method to show Poisson and normal limit laws for fringe subtrees. In **Discrete Mathematics & Theoretical Computer Science,** DMTCS proc. BA: 169–180, 2014.
- Broutin N. and **Holmgren C.**, The total path length of split trees. In **Annals of Applied Probability** 22, 1745-1777, 2012.
- Björklund J. and **Holmgren C.**, Counterexamples to a monotonicity conjecture for the threshold pebbling number. In **Discrete Mathematics** 312, 2401-2405, 2012.
- **Holmgren C.**, Novel characteristics of split trees by use of renewal theory. In **Electronic Journal of Probability** 17, 1-27, 2012.
- **Holmgren C.**, A weakly 1-stable limiting distribution for the number of random records and cuttings in split trees. In **Advances of Applied Probability** 43, 151-177, 2011.
- **Holmgren C.**, Random records and cuttings in binary search trees. In **Combinatorics, Probability & Computing** 19, 391-424, 2010.
- **Holmgren C.**, Random records and cuttings in split trees. In **Discrete Mathematics & Theoretical Computer Science**, DMTCS proc. AI: 269-282, 2008.

Other:
- **Holmgren C.**, Split trees, cuttings and explosions. PhD Thesis, Uppsala University, 2010. www.diva-portal.org/smash/record.jsf?pid=diva2:285453
- **Holmgren C.**, Random records and cuttings in binary search trees. Licentiate degree thesis. In Blue series of Mathematics Uppsala University U.U.D.M Report; 2007:52**,** 2007.