Asta Halkjær From

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I care deeply about finding the right abstractions and processes in my work. My PhD in computer science and logic makes me an expert in digging into a subject, resolving problems and sharing my knowledge through talks and writing. I quickly pick up on the technical, social and organisational aspects of a situation and enjoy finding solutions that work under the given constraints. I was a teaching assistant in eight different courses during my studies, gave more than a dozen talks during my PhD and received a DTU Young Researcher Award at the end. I co-designed proof automation algorithms for the Lean 4 theorem prover in a successful, international, remote collaboration and have designed an Isabelle/HOL framework for proving completeness results in logic. I have since worked as a full stack developer, directly improving both the customer and developer experience.

Education

All at Technical University of Denmark (DTU Compute).

PhD[1] Computer Science and Logic 2020–2023

- *Formally Correct Deduction Methods for Computational Logic.* Adv.: Jørgen Villadsen, Nina Gierasimczuk.

MSc Computer Science and Engineering (Honours Programme, GPA 12) 2018–2020

- Thesis: *Hybrid logic* Adv.: Jørgen Villadsen, Alexander Birch Jensen, Patrick Blackburn (RUC).
- Study line: Artificial Intelligence and Algorithms.
- Study abroad (Erasmus): 30 ECTS at Technische Universität Wien (TUW), Austria.

BSc Software Technology (GPA 11.6) 2014–2018

- Thesis: *Formalized First-Order Logic.* Adv.: Jørgen Villadsen, Anders Schlichtkrull, John Bruntse Larsen.

Including courses (all top grade): 02157 + 02257 (Applied) Functional Programming, 02158 Parallel Programming, 02282 Algorithms for Massive Data Sets, 02285 Artificial Intelligence and Multi-Agent Systems, 02263 Formal Aspects of Software Engineering, 192.059 Formal Methods for Security and Privacy (TU Wien).

Work

Postdoc SDPS, DIKU, University of Copenhagen. Logic and verification. Aug 2024 – Jul 2026
Software Developer Dalux, Copenhagen. C#, TypeScript, Angular, Git. Aug 2023 – Jul 2024
Research Assistant Technical University of Denmark. Standard ML. 21 hours/week. Aug – Dec 2017
Teacher Hello World, Copenhagen. MIT Scratch workshops for ages 9–12. May – Jul 2017

Awards, Grants & Competitions

DTU Young Researcher Award *Given every year to six young researchers who have made an extraordinary effort and who have great potential for further development* (DKK 15,000).

Distinguished Paper Award For my CPP 2023 paper with Jannis Limperg on Lean 4 automation.

Otto Mønsted Fonden Travel Grant To participate at FLoC 2022 in Haifa, Israel (DKK 7,500).

DTU Travel Grant Awarded to me personally by DTU's Executive Board, February 2022, in recognition of my academic qualities and merits (DKK 25,000).

2nd team of 26 02285 Artificial Intelligence and Multi-Agent Systems (2018) internal competition.

Shared 1st 02210 Algorithms and Data Structures 2 (2015) internal competition.

Academic Activities

Program Committee Interactive Theorem Proving (ITP) 2025; DaLí 2023: Dynamic Logic.

Co-chair Logic and Computation track of the Student Session @ 32nd European Summer School in Logic, Language and Information (ESSLLI 2021).

Reviewing Synthese; Journal of Logic, Language and Information (JLLI); Journal of Logic and Computation (JLC). *Subreviewing:* Asian Workshop on Philosophical Logic (AWPL 2024); Theoretical Aspects of Rationality & Knowledge (TARK 2023); Conference on Intelligent Computer Mathematics (CICM 2022); Conference on Logic, Rationality and Interaction (LORI-VIII 2021); Dynamic Logic: New Trends and Applications (DaLí 2020).

Participant Satisfiability (SAT), Satisfiability Modulo Theories (SMT), and Automated Reasoning (AR) Summer School 2019, Lisbon, Portugal. Invited by speaker Laura Kovács (TU Wien).

[1] Google Scholar h-index: 10, ORCID: 0000-0002-3601-0804 (52 works), dblp.org/pid/214/1791 (32 records)

Research Visits

VU Amsterdam *Lean Forward*: Proof automation for the Lean theorem prover. May 2022
VU Amsterdam *Lean Forward*: Proof automation for the Lean theorem prover. November 2022
VU Amsterdam (remote) Virtual research stay hosted by Jasmin Blanchette. May & June 2021.

Teaching Assistant at DTU Compute

02287 Logical Theories for Uncertainty and Learning 2020
02102 Introductory Programming (Java & C) 2020
02256 Automated Reasoning 2020
02156 Logical Systems and Logic Programming 2018 & 2019
02180 Introduction to Artificial Intelligence 2018
02110 Algorithms and Data Structures 2 2016
02105 Algorithms and Data Structures 1 2016 & 2017
02101 Introductory Programming (Java) 2015 & 2016

Co-Supervision at DTU Compute

MSc thesis Frederik Krogsdal Jacobsen, *Formalization of Logical Systems in Isabelle.* 2021
BSc thesis Emmanuel André Ryom, *A Proof Tool for First-Order Logic.* 2021
BSc thesis Simon Tobias Lund, *Prover Programming.* 2021
Special Course *A Case Study in Computer-Assisted Meta-Reasoning.* 2021
Special Course *Advanced Automated Reasoning.* 2021
Special Course *Sequent Calculus Verifier.* 2021
Special Course *Advanced Topics in Types and Programming Languages.* 2021
Special Course *Advanced Theorem Proving in Isabelle.* 2020
Special Course *Type Theory and Formal Proof.* 2020
Special Course *Correctness proofs for distributed systems in Isabelle.* 2020
Special Course *Fundamental Concepts in Algebraic Topology.* 2020
Special Course *Visualization of proofs.* 2020

Entries in the Isabelle Archive of Formal Proofs

- Synthetic Completeness 2023
- Soundness and Completeness of Implicational Logic (with J. Villadsen) 2022
- A Naive Prover for First-Order Logic 2022
- A Sequent Calculus Prover for First-Order Logic with Functions (with F. K. Jacobsen) 2022
- Soundness and Completeness of an Axiomatic System for First-Order Logic 2021
- Public Announcement Logic 2021
- Formalizing a Seligman-Style Tableau System for Hybrid Logic 2019
- A Sequent Calculus for First-Order Logic 2019
- Epistemic Logic: Completeness of Modal Logics 2018

Invited Talks

A Naive Prover for First-Order Logic at the Languages, Systems, and Data Seminar (LSD spring 2022). Invited by Lindsey Kuper (UC Santa Cruz), virtual.

My PhD Journey at kick-off event for new PhD students, fall 2021. Invited by Kim Knudsen, Head of PhD School, DTU Compute. Comwell Hotel, Holte.

External Talks

A Cute Trick for Calculating Saturated Sets at Copenhagen Logic Gathering 2023, Copenhagen.

Verifying a Sequent Calculus Prover for First-Order Logic with Functions in Isabelle/HOL at Thirteenth Conference on Interactive Theorem Proving (ITP 2022), Haifa, Israel.

On Termination for Hybrid Tableaux at the Isabelle Workshop 2022, Haifa, Israel.

Formalized Soundness and Completeness of Epistemic Logic at 27th Workshop on Logic, Language, Information and Computation (WoLLIC 2021), virtual.

Formalizing Axiomatic Systems for Propositional Logic in Isabelle/HOL at 14th Conference on Intelligent Computer Mathematics (CICM 2021), virtual.

Formalized Soundness and Completeness of Epistemic Logic at International Workshop on Logical Aspects in Multi-Agent Systems and Strategic Reasoning (LAMAS & SR 2021), virtual.

Hybrid Logic in the Isabelle Proof Assistant Benefits, Challenges and the Road Ahead: at Advances in Modal Logic (AiML 2020), virtual.

Formally Correct Deduction Methods for Computational Logic at 13th Conference on Intelligent Computer Mathematics (CICM 2020) doctoral session, virtual.

Formalizing Henkin-Style Completeness of an Axiomatic System for Propositional Logic at WeSSLLI + ESSLLI Virtual Student Session 2020, virtual.

Formalizing a Seligman-Style Tableau System for Hybrid Logic at International Joint Conference on Automated Reasoning (IJCAR 2020), virtual.

A Concise Sequent Calculus for Teaching First-Order Logic at the Isabelle Workshop 2020, virtual.

Using the Isabelle Proof Assistant Seligman-Style Tableau for Hybrid Logic: at The LogicS of Prior Past, Present, and Future 2019, Roskilde University, Denmark.

Formalized Soundness and Completeness of Natural Deduction for First-Order Logic at Scandinavian Logic Symposium 2018, University of Gothenburg, Sweden.

Local Talks

How to Speak Logic with your Computer: The Unreasonable Effectiveness of a Machine Assistant at DIKU Bits, January 2025, UCPH.

Generic Epistemic and Public Announcement Logic Completeness Results at Logic & AI @ AlgoLoG seminar, September 2022, DTU Compute, Kongens Lyngby.

Verifying a Sequent Calculus Prover for First-Order Logic with Functions in Isabelle/HOL at PhD Bazaar 2022, DTU Compute, Kongens Lyngby.

A Naive Prover for First-Order Logic as guest talk in the DTU course Course{02256} Automated Reasoning, DTU Compute, Kongens Lyngby.

Hybrid Logic at 3rd World Logic Day 2021, A Zoom on Logic, organized by DTU Compute, virtual.

Belief Revision and Isabelle/HOL at a seminar course 2020, DTU Compute, Kongens Lyngby.

The Isabelle Proof Assistant and Hybrid Logic Formalizing Seligman-Style Tableaux: at an AlgoLoG section seminar 2019, DTU Compute, Kongens Lyngby.

Formalized Soundness and Completeness of Natural Deduction for First-Order Logic at Local Isabelle Workshop 2018, DTU Compute, Kongens Lyngby.

Magnolia — Implementing System F with Anonymous Sums and Products at Workshop on Programs & Proofs 2018, DTU Compute, Kongens Lyngby.

FIT — From's Isabelle Tutorial — Verification of Quicksort at Proof Assistants and Related Tools 2017, DTU Compute, Kongens Lyngby.

Publications

- From, A. H. (2025). An Isabelle/HOL Framework for Synthetic Completeness Proofs. *Proceedings of the 14th ACM SIGPLAN International Conference on Certified Programs and Proofs*, 171–186. https://doi.org/10.1145/3703595.3705882
- From, A. H. (2024). Formalized Soundness and Completeness of Epistemic and Public Announcement Logic. *Journal of Logic and Computation*. https://doi.org/10.1093/logcom/exae054
- From, A. H., & Jacobsen, F. K. (2024). Verifying a Sequent Calculus Prover for First-Order Logic with Functions in Isabelle/HOL. *Journal of Automated Reasoning*, *68*(15). https://doi.org/10.1007/s10817-024-09697-3
- From, A. H., & Villadsen, J. (2023). A Naive Prover for First-Order Logic: A Minimal Example of Analytic Completeness. In R. Ramanayake & J. Urban (Eds.), *Automated Reasoning with Analytic Tableaux and Related Methods - 32nd International Conference, TABLEAUX 2023, Prague, Czech Republic, September 18-21, 2023, Proceedings: Vol. 14278. Automated Reasoning with Analytic Tableaux and Related Methods - 32nd International Conference, TABLEAUX 2023, Prague, Czech Republic, September 18-21, 2023, Proceedings*. https://doi.org/10.1007/978-3-031-43513-3_25
- From, A. H., Schlichtkrull, A., & Villadsen, J. (2023). A Sequent Calculus for First-order Logic Formalized in Isabelle/HOL. *Journal of Logic and Computation*, *33*(4), 818–836. https://doi.org/10.1093/logcom/exad013
- Eschen, A. M., From, A. H., & Villadsen, J. (2023). More Formalized Axiomatic Systems for Propositional Logic in Isabelle/HOL. In S. Cojocaru, I. Drugus, M. Nikitchenco, & A. Muravitsky (Eds.), *Logic and*

Artificial Intelligence (pp. 7–22). Vladimir Andrunachievici Institute of Mathematics, Computer Science. https://slai2022.islai.org/proceedings/

- Limperg, J., & From, A. H. (2023). Aesop: White-Box Best-First Proof Search for Lean. In R. Krebbers, D. Traytel, B. Pientka, & S. Zdancewic (Eds.), *Proceedings of the 12th ACM SIGPLAN International Conference on Certified Programs and Proofs, CPP 2023, Boston, MA, USA, January 16-17, 2023: Proceedings of the 12th ACM SIGPLAN International Conference on Certified Programs and Proofs, CPP 2023, Boston, MA, USA, January 16-17, 2023*. https://doi.org/10.1145/3573105.3575671
- From, A. H., & Jacobsen, F. K. (2022). Verifying a Sequent Calculus Prover for First-Order Logic with Functions in Isabelle/HOL. In J. Andronick & L. de Moura (Eds.), *13th International Conference on Interactive Theorem Proving, ITP 2022, August 7-10, 2022, Haifa, Israel: Vol. 237. 13th International Conference on Interactive Theorem Proving, ITP 2022, August 7-10, 2022, Haifa, Israel*. https://doi.org/10.4230/LIPIcs.ITP.2022.13
- From, A. H., Lund, S. T., & Villadsen, J. (2022). A Case Study in Computer-Assisted Meta-reasoning. In S. R. González, J. M. Machado, A. González-Briones, J. Wikarek, R. Loukanova, G. Katranas, & R. Casado-Vara (Eds.), *Distributed Computing and Artificial Intelligence, Volume 2: Special Sessions 18th International Conference: Vol. 332. Distributed Computing and Artificial Intelligence, Volume 2: Special Sessions 18th International Conference*. https://doi.org/10.1007/978-3-030-86887-1_5
- Villadsen, J., From, A. H., Jensen, A. B., & Schlichtkrull, A. (2022). Interactive Theorem Proving for Logic and Information. In R. Loukanova (Ed.), *Natural Language Processing in Artificial Intelligence — NLPinAI 2021* (Vol. 999, pp. 25–48). Springer International Publishing. https://doi.org/10.1007/978-3-030-90138-7_2
- From, A. H. (2021). A Succinct Formalization of the Completeness of First-Order Logic. In H. Basold, J. Cockx, & S. Ghilezan (Eds.), *27th International Conference on Types for Proofs and Programs, TYPES 2021, June 14-18, 2021, Leiden, The Netherlands (Virtual Conference): Vol. 239. 27th International Conference on Types for Proofs and Programs, TYPES 2021, June 14-18, 2021, Leiden, The Netherlands (Virtual Conference)*. https://doi.org/10.4230/LIPIcs.TYPES.2021.8
- From, A. H. (2021). Formalized Soundness and Completeness of Epistemic Logic. In A. Silva, R. Wassermann, & R. J. G. B. de Queiroz (Eds.), *Logic, Language, Information, and Computation - 27th International Workshop, WoLLIC 2021, Virtual Event, October 5-8, 2021, Proceedings: Vol. 13038. Logic, Language, Information, and Computation - 27th International Workshop, WoLLIC 2021, Virtual Event, October 5-8, 2021, Proceedings*. https://doi.org/10.1007/978-3-030-88853-4_1
- From, A. H. (2021). Formalizing Henkin-Style Completeness of an Axiomatic System for Propositional Logic. In A. Pavlova, M. Y. Pedersen, & R. Bernardi (Eds.), *Selected Reflections in Language, Logic, and Information - ESSLLI 2019, ESSLLI 2020 and ESSLLI 2021 Student Sessions, Selected Papers: Vol. 14354. Selected Reflections in Language, Logic, and Information - ESSLLI 2019, ESSLLI 2020 and ESSLLI 2021 Student Sessions, Selected Papers*. https://doi.org/10.1007/978-3-031-50628-4_5
- From, A. H., Eschen, A. M., & Villadsen, J. (2021). Formalizing Axiomatic Systems for Propositional Logic in Isabelle/HOL. In F. Kamareddine & C. S. Coen (Eds.), *Intelligent Computer Mathematics - 14th International Conference, CICM 2021, Timisoara, Romania, July 26-31, 2021, Proceedings: Vol. 12833. Intelligent Computer Mathematics - 14th International Conference, CICM 2021, Timisoara, Romania, July 26-31, 2021, Proceedings*. https://doi.org/10.1007/978-3-030-81097-9_3
- From, A. H., Jacobsen, F. K., & Villadsen, J. (2021). SeCaV: A Sequent Calculus Verifier in Isabelle/HOL. In M. Ayala-Rincón & E. Bonelli (Eds.), *Proceedings 16th Logical and Semantic Frameworks with Applications, LSFA 2021, Buenos Aires, Argentina (Online), 23rd - 24th July, 2021: Vol. 357. Proceedings 16th Logical and Semantic Frameworks with Applications, LSFA 2021, Buenos Aires, Argentina (Online), 23rd - 24th July, 2021*. https://doi.org/10.4204/EPTCS.357.4
- From, A. H., Schlichtkrull, A., & Villadsen, J. (2021). A Sequent Calculus for First-Order Logic Formalized in Isabelle/HOL. In S. Monica & F. Bergenti (Eds.), *Proceedings of the 36th Italian Conference on Computational Logic, Parma, Italy, September 7-9, 2021: Vol. 3002. Proceedings of the 36th Italian Conference on Computational Logic, Parma, Italy, September 7-9, 2021*. http://ceur-ws.org/Vol-3002/paper7.pdf
- Villadsen, J., From, A. H., & Blackburn, P. (2021). Teaching Intuitionistic and Classical Propositional Logic Using Isabelle. In J. Marcos, W. Neuper, & P. Quaresma (Eds.), *Proceedings 10th International Workshop on Theorem Proving Components for Educational Software, ThEdu@CADE 2021, (Remote) Carnegie Mellon University, Pittsburgh, PA, United States, 11 July 2021: Vol. 354. Proceedings 10th International Workshop on Theorem Proving Components for Educational Software, ThEdu@CADE 2021, (Remote) Carnegie Mellon University, Pittsburgh, PA, United States, 11 July 2021*. https://doi.org/10.4204/EPTCS.354.6

- From, A. H. (2020). Hybrid logic in the Isabelle Proof Assistant: Benefits, Challenges and the Road Ahead. In N. Olivetti & R. Verbrugge (Eds.), *Short Papers: Advances in Modal Logic (AiML): Short Papers: Advances in Modal Logic (AiML)*. https://archive.org/details/aiml2020shortpapers.pdf
- From, A. H. (2020). Synthetic Completeness for a Terminating Seligman-Style Tableau System. In U. de'Liguoro, S. Berardi, & T. Altenkirch (Eds.), *26th International Conference on Types for Proofs and Programs, TYPES 2020, March 2-5, 2020, University of Turin, Italy: Vol. 188. 26th International Conference on Types for Proofs and Programs, TYPES 2020, March 2-5, 2020, University of Turin, Italy*. https://doi.org/10.4230/LIPIcs.TYPES.2020.5
- From, A. H., Blackburn, P., & Villadsen, J. (2020). Formalizing a Seligman-Style Tableau System for Hybrid Logic (Short Paper). In N. Peltier & V. Sofronie-Stokkermans (Eds.), *Automated Reasoning - 10th International Joint Conference, IJCAR 2020, Paris, France, July 1-4, 2020, Proceedings, Part I: Vol. 12166. Automated Reasoning - 10th International Joint Conference, IJCAR 2020, Paris, France, July 1-4, 2020, Proceedings, Part I*. https://doi.org/10.1007/978-3-030-51074-9_27
- From, A. H., Villadsen, J., & Blackburn, P. (2020). Isabelle/HOL as a Meta-Language for Teaching Logic. In P. Quaresma, W. Neuper, & J. Marcos (Eds.), *Proceedings 9th International Workshop on Theorem Proving Components for Educational Software, ThEdu@IJCAR 2020, Paris, France, 29th June 2020: Vol. 328. Proceedings 9th International Workshop on Theorem Proving Components for Educational Software, ThEdu@IJCAR 2020, Paris, France, 29th June 2020*. https://doi.org/10.4204/EPTCS.328.2
- From, A. H., Jensen, A. B., Schlichtkrull, A., & Villadsen, J. (2019). Teaching a Formalized Logical Calculus. In P. Quaresma, W. Neuper, & J. Marcos (Eds.), *Proceedings 8th International Workshop on Theorem Proving Components for Educational Software, ThEdu@CADE 2019, Natal, Brazil, 25th August 2019: Vol. 313. Proceedings 8th International Workshop on Theorem Proving Components for Educational Software, ThEdu@CADE 2019, Natal, Brazil, 25th August 2019*. https://doi.org/10.4204/EPTCS.313.5
- Schlichtkrull, A., Villadsen, J., & From, A. H. (2018). Students' Proof Assistant (SPA). In P. Quaresma & W. Neuper (Eds.), *Proceedings 7th International Workshop on Theorem proving components for Educational software, ThEdu@FLoC 2018, Oxford, United Kingdom, 18 july 2018: Vol. 290. Proceedings 7th International Workshop on Theorem proving components for Educational software, ThEdu@FLoC 2018, Oxford, United Kingdom, 18 july 2018*. https://doi.org/10.4204/EPTCS.290.1
- Villadsen, J., From, A. H., & Schlichtkrull, A. (2018). Natural Deduction Assistant (NaDeA). In P. Quaresma & W. Neuper (Eds.), *Proceedings 7th International Workshop on Theorem proving components for Educational software, ThEdu@FLoC 2018, Oxford, United Kingdom, 18 july 2018: Vol. 290. Proceedings 7th International Workshop on Theorem proving components for Educational software, ThEdu@FLoC 2018, Oxford, United Kingdom, 18 july 2018*. https://doi.org/10.4204/EPTCS.290.2
- Villadsen, J., Schlichtkrull, A., & From, A. H. (2018). A Verified Simple Prover for First-Order Logic. In B. Konev, J. Urban, & P. Rümmer (Eds.), *Proceedings of the 6th Workshop on Practical Aspects of Automated Reasoning co-located with Federated Logic Conference 2018 (FLoC 2018), Oxford, UK, July 19th, 2018: Vol. 2162. Proceedings of the 6th Workshop on Practical Aspects of Automated Reasoning co-located with Federated Logic Conference 2018 (FLoC 2018), Oxford, UK, July 19th, 2018*. http://ceur-ws.org/Vol-2162/paper-08.pdf
- Villadsen, J., From, A. H., Jacobi, S., & Larsen, N. N. (2018). Multi-Agent Programming Contest 2016 — The Python-DTU Team. *International Journal of Agent-Oriented Software Engineering*, *6*(1), 86–100. https://doi.org/10.1504/IJAOSE.2018.10010604
- Villadsen, J., Bjørn, M. O., From, A. H., Henney, T. S., & Larsen, J. B. (2018). Multi-Agent Programming Contest 2018 — The Jason-DTU Team. In T. Ahlbrecht, J. Dix, & N. Fiekas (Eds.), *The Multi-Agent Programming Contest 2018 — Agents Teaming Up in an Urban Environment: Vol. 11957. The Multi-Agent Programming Contest 2018 — Agents Teaming Up in an Urban Environment* (pp. 41–71). Springer. https://doi.org/10.1007/978-3-030-37959-9_3
- Villadsen, J., From, A. H., & Schlichtkrull, A. (2017). Natural Deduction and the Isabelle Proof Assistant. In P. Quaresma & W. Neuper (Eds.), *Proceedings 6th International Workshop on Theorem proving components for Educational software, ThEdu@CADE 2017, Gothenburg, Sweden, 6 Aug 2017: Vol. 267. Proceedings 6th International Workshop on Theorem proving components for Educational software, ThEdu@CADE 2017, Gothenburg, Sweden, 6 Aug 2017*. https://doi.org/10.4204/EPTCS.267.9

Other Articles

- From, A. H. (2022). *On Termination for Hybrid Tableaux*. https://files.sketis.net/Isabelle_Workshop_2022/Isabelle_2022_paper_13.pdf
- From, A. H., Jensen, A. B., & Villadsen, J. (2021). *Formalized Soundness and Completeness of Epistemic Logic*. https://lamassr.github.io/editions/2021/papers/Formalized-Soundness.pdf
- From, A. H., & Villadsen, J. (2021). *On the Use of Isabelle/HOL for Formalizing New Concise Axiomatic Systems for Classical Propositional Logic*. https://types21.liacs.nl/download/on-the-use-of-isabelle-hol-for-formalizing-new-concise-axiomatic-systems-for-classical-propositional-logic/
- From, A. H., & Villadsen, J. (2021). *Teaching Automated Reasoning and Formally Verified Functional Programming in Agda and Isabelle/HOL*. https://wiki.tfpie.science.ru.nl/images/a/a6/TFPIE_AHF_JV.pdf
- From, A. H., & Villadsen, J. (2020). *A Concise Sequent Calculus for Teaching First-Order Logic*. https://files.sketis.net/Isabelle_Workshop_2020/Isabelle_2020_paper_6.pdf
- From, A. H. (2018). *Formalized Soundness and Completeness of Natural Deduction for First-Order Logic*. https://scandinavianlogic.org/assets/attachments/book_of_abstracts_sls2018.pdf#page=11
- From, A. H., Hatteland, & Villadsen, J. (2018). *Teaching First-Order Logic with the Natural Deduction Assistant (NaDeA)*. https://scandinavianlogic.org/assets/attachments/book_of_abstracts_sls2018.pdf#page=11
- From, A. H., Schlichtkrull, A., & Villadsen, J. (2018). *Drawing Trees*. https://files.sketis.net/Isabelle_Workshop_2018/Isabelle_2018_paper_7.pdf
- From, A. H., Larsen, J. B., Schlichtkrull, A., & Villadsen, J. (2018). *Substitutionless First-Order Logic: A Formal Soundness Proof*. https://files.sketis.net/Isabelle_Workshop_2018/Isabelle_2018_paper_3.pdf
- Villadsen, J., Schlichtkrull, A., & From, A. H. (2016). *Code Generation for a Simple First-Order Prover*. https://web.archive.org/web/20220121022845/https://www21.in.tum.de/~nipkow/Isabelle2016/Isabelle2016_12.pdf