

TIM ALBERDINGK THIJM

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POSITION (CURRENT)

PhD Candidate, Computer Science, Princeton University 2023-06-01 (expected)
Interests: Automated verification, network programming, formal methods, programming language design

POSITIONS (PAST)

Bell Labs Summer Intern – Network State, Nokia 2020-06-01 – 2020-08-07
Researched applications of modular automated verification for cutting-edge network development and testing

Security Engineering Intern, Trail of Bits 2018-04-19 – 2018-07-04
Implemented dead code elimination analysis in Remill, a static binary translator from machine code to LLVM bitcode

Research Assistant – LEME, University of Toronto 2017-05-01 – 2018-08-31
Redesigned and documented XML encoding and validation process for corpus of hundreds of historical English dictionaries

Systems Analyst, Bell Canada 2016-09-01 – 2017-05-01
Spearheaded self-initiated data automation project for contact centre testing in large-scale enterprise environment

Research Assistant – DiLiPaD, University of Toronto 2015-05-01 – 2016-08-29
Developed complete XML database of parliamentary debate proceedings; modelled topical variance in immigration discussion

EDUCATION

Masters of Arts, Computer Science, Princeton University June 2020
Bachelors of Science (Honours), Computer Science & English, University of Toronto June 2018

AWARDS

William Chrichton Webster Scholarship September 2017
NSERC USRA Award May 2016
Joseph Alfred Whealey In-Course Scholarship September 2015
William McCauley Scholarship from Victoria College July 2015
NSERC USRA Award May 2015
Dr. John Knowles Colling Memorial Scholarship January 2015
Paul McComb North House Scholarship from Victoria College September 2014
UofT Scholar Award September 2013
Katherine St John Scholarship from Victoria College September 2013

TEACHING

Co-teacher, "Computer Literacy", Raritan Valley Community College/Prison Teaching Initiative Fall 2021
Teaching assistant to Prof. K. Frank, "Algorithms and Data Structures", Princeton U. Spring 2020
Teaching assistant to Prof. A. Gupta, "Automated Reasoning in Computer Science", Princeton U. Fall 2019
Teaching assistant to Prof. G. Baumgartner, "Principles of Programming Languages", U. of Toronto Fall 2017

PUBLICATIONS AND PAPERS

Alberdingk Thijm, T., Atkinson, G., Jagadeesan, L. and Thottan, M., "A Matter of Trust: Verification of Security and Performance for Network Platform as a Service," *2021 51st Annual IEEE/IFIP International Conference on Dependable Systems and Networks - Supplemental Volume (DSN-S)*, 2021, pp. 49-52, doi: 10.1109/DSN-S52858.2021.00030.

Wachsmuth, H., Naderi, N., Hou, Y., Bilu, Y., Prabhakaran, V., Alberdingk Thijm, T., Hirst, G. and Stein, B., 2017, April. "Computational argumentation quality assessment in natural language". In *Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics: Volume 1, Long Papers* (pp. 176-187).

Beelen, K., Alberdingk Thijm, T., Cochrane, C., Halvemaan, K., Hirst, G., Kimmins, M., Lijbrink, S., Marx, M., Naderi, N., Rheault, L. and Polyansky, R., 2017. "Digitization of the Canadian parliamentary debates". *Canadian Journal of Political Science/Revue canadienne de science politique*, 50(3), pp.849-864.