

Nick Giannarakis

Address

151 Taylor Ct
Princeton, NJ
USA

Born on 30 June 1990

Contact Info

+1 609-454-1943
ng8@princeton.edu

Education

Princeton University

- PhD in Computer Science
- Admission Year - 2015
- Graduation Year - 2020 (expected)

Ecole normale superieure de Cachan

- Parisian Masters of Research in Computer Science (MPRI M2)
- Admission Year - 2014
- Graduation Year - 2015
- Master Thesis - Release-Acquire on Power

National Technical University of Athens

- School of Electrical and Computer Engineering
- Admission Year - 2008
- Graduation Year - 2014
- GPA - 8.52/10.0
- Diploma Thesis - Formally Verified Tag-Based Enforcement of Control Flow Integrity
- Committee - Nikolaos Papaspyrou, Kostis Sagonas, Yannis Smaragdakis

Work

Experience

Microsoft Research

- RiSE team, June 2017 - September 2017
- Mentors: Chris Hawblitzel, Nikhil Swamy
- Worked on the F^* program verifier

MPI-SWS

- Prosecco team, April 2015 - September 2015
- Advisor : Viktor Vafeiadis
- Topic : Worked on the semantics of fences of Power processors

INRIA Paris-Rocquencourt

- Prosecco team, April 2014 - September 2014
- Advisor : Cătălin Hrițcu
- Topic : Worked on the formal verification of a tag-based reference monitor for Control-Flow Integrity using the Coq proof assistant.

Publications

1. Guido Martnez, Danel Ahman, Victor Dumitrescu, Nick Giannarakis, Chris Hawblitzel, Ctlin Hricu, Monal Narasimhamurthy, Zoe Paraskevopoulou, Clment Pit-Claudel, Jonathan Protzenko, Tahina Ramananandro, Aseem Rastogi, Nikhil Swamy. Meta- F^* : Proof automation with SMT, tactics, and metaprograms. To appear in ESOP 2019.
2. Aymeric Fromherz, Nick Giannarakis, Chris Hawblitzel, Bryan Parno, Aseem Rastogi, Nikhil Swamy. A Verified, Efficient Embedding of a Verifiable Assembly Language. POPL 2019.
3. Ori Lahav, Nick Giannarakis, Viktor Vafeiadis. Taming release-acquire consistency. POPL 2016.

4. Arthur Azevedo de Amorim, Maxime Dénès, Nick Giannarakis, Cătălin Hrițcu, Benjamin C. Pierce, Antal Spector-Zabusky, and Andrew Tolmach. Micro-Policies: A Framework for Verified, Hardware-Assisted Security Monitors. 2015 IEEE Symposium on Security and Privacy.

Academic Service

- Artifact Evaluation Committee POPL 2018
- Artifact Evaluation Committee POPL 2017
- Sub-reviewer CPP 2016

Awards

- Labex Digicosme MPRI scholarship
- Utrecht University summer school scholarship
- Stanley J. Seeger Hellenic Studies Prize
- PLMW 2015 scholarship

Computer Skills**Programming Languages**

OCaml, C, SML, Erlang, Haskell

Proof Assistants

Coq, F^*