

Cezar-Constantin Andrici

Ph.D. at Max Planck Institute for Security and Privacy
Bochum, Germany
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1 Education

Ph.D. at [Max Planck Institute for Security and Privacy](#), Bochum, Germany (Oct '21 -)
Advisor: [Cătălin Hrițcu](#), Subject: Secure interoperability

M.Sc. in Computer Science from [FII @ UAIC](#), Iași, Romania (Oct 2019 to Jul 2021)

M.Sc. in Regional Development from [CSE @ UAIC](#), Iași, Romania (Oct '19 to Jul '21)

Licence in Computer Science from [FII @ UAIC](#), Iași, Romania (Oct 2015 to Jul 2019)

High School Diploma from „Grigore Moisil” Computer Science High School, Iași

2 Positions

Research intern at [UAIC](#) (from Feb 2020 to Jun and from Nov to Jul 2021)

- under the supervision of [Ștefan Ciobâcă](#)
- on secure F*-ML interoperability for input-output programs
- Iași, Romania

Research intern at [MPI-SP](#), Bochum, Germany (Jul 2020 to Oct 2020)

- under the supervision of [Cătălin Hrițcu](#)
- on secure F*-ML interoperability for input-output programs

Research intern at [Inria Paris](#), France (Jul 2019 to Nov 2019)

- under the supervision of [Cătălin Hrițcu](#) and [Exequiel Rivas](#)
- case study on using the F* language to verify trace properties of a web server

IT Specialist at [UAIC](#), Iași, Romania (Dec 2017 to Jun 2019)

Full Stack Developer and Team Leader at CTF365 (Sep 2013 to Jun 2018)

- security startup
- participated at [hub:raum - Tech Incubator of Deutsche Telekom](#)
- Cluj, Romania

Software Development Intern at [Amazon Development Center](#) (Jul '15 to Oct '15)

- Iași, Romania

3 Awards & Grants

1st prize at Student Research Competition, graduates section, at the 25th ACM SIGPLAN International Conference on Functional Programming (ICFP 2020) with submission: Gradual Enforcement of IO Trace Properties.

Travel grant to participate in VMCAI Winter School, New Orleans, 2020.

Scientific performance scholarship from [UAIC](#), Iași, Romania. The scholarship is for 12 months and it is competitively awarded.

4 Publications

1. Extended abstract - **Partial Dijkstra Monads for All**. Théo Winterhalter, Cezar-Constantin Andrici, Cătălin Hrițcu, Kenji Maillard, Guido Martínez and Exequiel Rivas. At 28th International Conference on Types for Proofs and Programs ([TYPES 2022](#)).
2. Poster, extended abstract - [Gradual Enforcement of IO Trace Properties](#). Cezar-Constantin Andrici. At the 25th ACM SIGPLAN International Conference on Functional Programming (ICFP 2020). Advisors: Ștefan Ciobâcă, Cătălin Hrițcu, Guido Martínez, Exequiel Rivas, Éric Tanter.
3. [Who Verifies the Verifiers? A Computer-Checked Implementation of the DPLL Algorithm in Dafny](#). Cezar-Constantin Andrici and Ștefan Ciobâcă. (submitted for journal review)
4. [Verifying the DPLL Algorithm in Dafny](#). Cezar-Constantin Andrici and Ștefan Ciobâcă. In *Working Formal Methods Symposium 2019* (FROM 2019) EPTCS 303, 2019, pages 3–15.

5 Presentations

Gradual Enforcement of IO Trace Properties

- at Student Research Competition, 25th ACM SIGPLAN International Conference on Functional Programming (ICFP 2020), online (Aug 2020).

Verification of IO behavior of programs in F*

- at Faculty of Computer Science Seminar, Iași (Jan 2020).

6 Community Service

Sub-reviewer at

- 42nd IEEE Symposium on Security and Privacy

Student Volunteer at

- 41st ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2020);
- 47th ACM SIGPLAN Symposium on Principles of Programming Languages

(POPL 2020);

- European Joint Conferences on Theory and Practice of Software (ETAPS 2019);
- Working Formal Methods Symposium (FROM 2018).

Judge in the national committee for the National Contest InfoEducație for pupils between 2016 and 2020, Romania. (pupils develop and present web or mobile apps)

7 Teaching Assistant

Informally helped tutor students in [Logics in Computer Science](#), 2020, [UAIC](#), Iași.

8 Attended Summer Schools

[The Cornell, Maryland, Max Planck Pre-doctoral Research School 2020 \(online\)](#)

[Verification, Model Checking, and Abstract Interpretation \(VMCAI\)](#)

[Winter School 2020 \(New Orleans\)](#)

[POPL Programming Languages Mentoring Workshop 2020 \(New Orleans\)](#)

[ETAPS Mentoring Workshop 2019 \(Prague\)](#)

ICUB - Coq Autumn School (Bucharest, 2018)

9 Skills

Strong algorithmic and problem solving background. A knack and love for problem solving and theoretical challenges. Ability to quickly research and learn new concepts. Can work efficiently in a team.

Knowledgeable with VIM, Emacs, Linux based platforms, code versioning tools, Docker and Cloud Services.

Proficient in F*, Dafny, JavaScript, C/C++ and SQL. Knowledgeable with Solidity, Haskell, Python, Coq, Ruby and Java.

10 Languages

Romanian (Native), **English** (Proficient user, IELTS - Overall 7.5), **German** (beginner)

11 References

[Ștefan Ciobâcă](#) Associate Professor at [UAIC](#), Iași, Romania

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[Cătălin Hrițcu](#) Tenured faculty at [MPI-SP](#), Bochum, Germany

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[Éric Tanter](#) Full Professor at [University of Chile](#)

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