

Ismail Kuru, Ph.D. Candidate

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Employment History

- 2016(Sep) – ■ **Research Assistant.** Drexel University, College of Computing & Informatics.
- 2019(Apr) – 2019(June) ■ **Research Intern.** BedRock Systems.
- 2016(Jan) – 2016(Sep) ■ **Senior Software Engineer.** Crytek GmbH.
- 2014(Sep) – 2015(Feb) ■ **Research Assistant.** Koc University. Advisor: Dr. Serdar Tasiran.
- 2014(Apr) – 2014(Aug) ■ **Research Intern.** Microsoft Research. Advisors: Dr. Matthew J. Parkinson, Ben Hall and Serdar Tasiran.
- 2013(Sep) – 2014(Mar) ■ **Visiting Research Student.** University of Washington. Advisor: Dr. Dan Grossman.
- 2012(Sep) – 2013(Sep) ■ **Research Assistant.** Koc University.
- 2012(Mar) – 2012(Sep) ■ **Software Developer.** GNU Compiler Collection, Google Summer of Code 2011. Advisor: Dr. Albert Cohen.

Education

- 2016 – ■ **Ph.D., Drexel University, U.S.A** in Software Reliability.
Thesis title: *Not Determined Yet*.
Advisor: *Dr. Colin S. Gordon*
- 2018 ■ **M.Sc. Computer Science, Drexel University, U.S.A.**
Coursework Completed
- 2015 ■ **M.Sc. Computer Science, Koc University, Turkey** in Software Verification.
Thesis title: *Static Methods for Checking Correctness of Programs on Relaxed Memory Systems*.
Advisor: *Dr. Serdar Tasiran*
Coursework Completed in Technical University of Munich, Germany.

Research Publications

Conference Proceedings

- 1 Kuru, I. & Gordon, C. S. (2019). Safe deferred memory reclamation with types. (Vol. abs/1811.11853). 28th European Symposium on Programming, ESOP.
- 2 Kuru, I., Matar, H. S., Cristal, A., Kestor, G., & Unsal, O. (2013). Parv: parallelizing runtime detection and prevention of concurrency errors. In S. Qadeer & S. Tasiran (Eds.), *Runtime verification* (pp. 42–47). Berlin, Heidelberg: Springer Berlin Heidelberg.

Books and Chapters

- 1 Cristal, A., Ozkan, B. K., Cohen, E., Kestor, G., Kuru, I., Unsal, O., ... Elmas, T. (2015). *Verification tools for transactional programs* (R. Guerraoui & P. Romano, Eds.). Cham: Springer International Publishing. doi:10.1007/978-3-319-14720-8_14

Workshop

- 1 Kuru, I., Kulahcioglu Ozkan, B., Mutluergil, S. O., Tasiran, S., Elmas, T., & Cohen, E. (2014). *Verifying programs under snapshot isolation and similar relaxed consistency models*.
- 2 Matar, H. S., Kuru, I., Tasiran, S., & Dementiev, R. (2014). *Accelerating precise race detection using commercially-available hardware transactional memory support*.

Thesis

- 1 Ismail, K. (2015). *Static methods for checking correctness of programs on relaxed memory systems*.

Skills

Languages	Strong reading, writing and speaking in English and Turkish. Intermediate German.
SMT Based Verification	VCC, Boogie, QED.
Model Checking	NuSMV.
Type Theory Based Verification	Coq.

Miscellaneous Experience

Awards and Achievements

- 2018 **Scholarship**. DeepSpec Summer School Scholarship Princeton U.S.A, 2018.
- 2017 **Scholarship**. PLMW Scholarship for ICFP'17 Oxford U.K, 2017.
- 2014 **Travel Grant**. Microsoft Research Visitor Grants(Multiple) Hosted by Dr. Matthew Parkinson, 2014.
- 2011–2014 **Graduate School Scholarship**. Received one of 18 Microsoft Research Europe PhD Scholarship awards, 2011-2014.
- 2012 **Travel Grant**. from Koc University for VCLA Winter School Vienna, 2012.
- 2011 **Travel Grant**. Inria-Paris Visitor Grants(Multiple) Hosted by Dr. Albert Cohen, 2011.


Summer/Winter Schools

- 2018 **DeepSpec Summer School Princeton U.S.A, 2018.**
- 2017 **PLMW for ICFP'17 Oxford U.K, 2017.**
 - OPLSS Summer School Oregon U.S.A, 2017.**
- 2012 **ACACES Sixth International Summer School Italy, 2012.**
 - Microsoft Research Ph.D. Summer School Cambridge U.K, 2012.**
 - Vienna Center for Logic and Algorithms Winter School on Verification Wien Austria, 2012.**
- 2010 **ACACES Sixth International Summer School Barcelona Spain, 2010.**

Service and Volunteering

- 2020 **POPL'20 Artifact Evaluation Committee.**
- 2018 **PLDI'18 Student Volunteer.**
- 2013 **SEFM'13 Subreviewer.**
 - SAS'13 Subreviewer.**

Miscellaneous Experience (continued)

2012  RV'12 Subreviewer.

References

Available on Request