Ismail Kuru, Ph.D. Candidate

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Employment History

2016(Sep) –	**Research Assistant.** Drexel University, College of Computing & Informatics.
2019(Apr) – 2019(Oct)	**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., Kulahcioglu Ozkan, B., Mutluergil, S. O., Tasiran, S., Elmas, T., & Cohen, E. (2014). Verifying programs under snapshot isolation and similar relaxed consistency models. Proceedings of the 9th ACM SIGPLAN Workshop on Transactional Computing, TRANSACT'14.
3. Matar, H. S., Kuru, I., Tasiran, S., & Dementiev, R. (2014). Accelerating precise race detection using commercially-available hardware transactional memory support. 5th Workshop on Determinism and Correctness in Parallel Programming, WoDet.
4. 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

Skills

Languages	Strong reading, writing and speaking in English and Turkish. Intermediate German.
Coding	Java, C#.NET, C.
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 Cambride 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

- 2018 PLDI'18 Student Volunteer.
- 2013 SEFM'13 Subreviewer.
- SAS'13 Subreviewer.
- 2012 RV'12 Subreviewer.

References

Available on Request