

Keren Ouaknine (PhD)

GENERAL INFORMATION

Mail: kereo@gmail.com
Mobile: +33 (0) 7 49 02 24 30
Home site: www.kereo.com
Citizenship: French and Israeli

INDUSTRY

CTO and co-founder of Harness Vision

Harness detects equine diseases using AI-managed cameras. Member of Amazon Builder Space and incubated at PACA Est. In partnership with Inria Sophia-Antipolis. July 2022 - present

Software Tech Lead at Appsflyer

Leader for the measurement and analytics team. I worked on the integration of Big Data tools such as Hadoop, Spark, Druid helping Appsflyer process large amounts of data in AWS. March 2021 - June 2022

Senior Big Data Scientist at Redis Labs

Working on next-generation database solutions with our R&D teams and storage partners (Intel, Samsung). Products include Redis Enterprise, Redis-on-Flash, Redis-Graph and Redis AI. CTO Team, Redis Labs Tel-Aviv, 2016 - 2019.

Visiting Research Scholar at the University of California Irvine

Optimized the performance of Apache AsterixDB
<https://asterixdb.apache.org>, 2013-2015.

Software Engineer at Dell EMC

Working on database optimization of Pivotal products with the research team.
Corporate specialized in storage, 2012.

Software Engineer at HPCC Systems

Working on the optimization of HPCC Systems , 2011.
Big Data and Data Analysis organization. Worldwide largest database of legal documents.

Software Engineer at Intel

Working with the research and development group of Intel Jerusalem, 2007-10.
Development of AMT (Active Management Technology), vPro provisioning services.

EDUCATION

PhD in Computer Science, 2011-2017

Dissertation Title: Optimization of Big Data Systems
Committee: Prof. Scott Kirkpatrick, Prof. Alon Peled, Dr. Dafna Shahaf, Prof. Dror Feitelson
School of Computer Science and Engineering, Hebrew University Jerusalem

MSc in Computer Science, 2005-2007

Dissertation Topic: Parallel systems stabilization
Advisor: Prof. Dror Feitelson
School of Computer Science and Engineering Hebrew University Jerusalem

BSc in Computer Engineering, 1999-2004

Ecole d'Ingénieur at Polytech Nice Sophia-Antipolis, France

One-year exchange at the Technion in Haifa, Israel

PUBLICATIONS

RedisGraph GraphBLAS Enabled Graph Database

P. Cailliau, T. Davis, V. Gadepally, J. Kepner, R. Lipman, J. Lovitz, **K. Ouaknine**

IPDPS Workshops '19: IEEE Parallel and Distributed Processing Symposium Workshops.

2019, Rio de Janeiro, Brazil. DOI: 10.1109/IPDPSW.2019.00054

Optimization of RocksDB for Redis on Flash

Keren Ouaknine, Oran Agra, Zvika Guz

ICCD 2017: Proceedings of the International Conference on Compute and Data Analysis ACM.

2017, Lakeland, Florida. DOI: 10.1145/3093241.3093278

A Performance Study of AsterixDB

Keren Ouaknine, Michael Carey

Big Data 2017: IEEE International Conference on Big Data.

2017, Boston, Massachusetts. DOI: 10.1109/BigData.2017.8258248

The PigMix Benchmark on Pig, MapReduce, and HPC Systems

Keren Ouaknine, Michael Carey and Scott Kirkpatrick

Big Data Congress 2015: International Congress on Big Data IEEE.

2015, Manhattan New-York. DOI: 10.1109/BigDataCongress.2015.99

Reducing Performance Evaluation Sensitivity and Variability by Input Shaking

Dan Tsafir, **Keren Ouaknine**, Dror G. Feitelson

MASCOTS 2007: IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems

2007, Istanbul, Turkey. DOI: 10.1109/MASCOTS.2007.58

TEACHING POSITIONS

Lead Instructor and lecturer at TAVtech NYU on Machine Learning and Big Data

An annual five weeks full-time Data Science bootcamp training students from top US universities on Big Data platforms, Hadoop, Spark, AWS technologies. ML algorithms: prediction, classification and clustering. Introduction to Deep Learning. 2015 - present.

Big Data Lecturer at IDC for Weizmann Institute graduate students

Course for graduate students on Big Data and Machine Learning, 2019 - present.

<http://www.kereno.com/ml.wis.php>

Lecturer at the School of Computer Science at the Interdisciplinary Center Herzeliya

Designed and instructed a new semestrial course on Databases and Big Data Platforms.

The course was given to advanced BSc students and MSc students, 2017-18.

Teaching Assistant and Lecturer at the Hebrew University

Functional Programming course, 2006-2007.

Instructor and volunteer at Middle East Education through Technology (meet.mit.edu)

Computer Science Instructor and Project Mentor.

Middle East Education through Technology (M-E-E-T) an MIT organization, 2005-2006.

LANGUAGES **French:** Native **Hebrew:** Native **English:** Fluent

HONORS AND **Google Europe Anita Borg Scholarship**
AWARDS Zurich, Switzerland 2007

Google Travel Grant
 Open Source Systems, FLOSS UK. Edinburgh, 2012

SOFTWARE SKILLS Big Data Platforms, Hadoop, Spark, Pig, Hive, AsterixDB, HPCC Systems, Cloud, AWS, GCP,
AND TECHNOLOGY Graph Databases, Neo4J, Redis

PROGRAMMING Python, Java, C++

HOME WEBSITE **<https://www.kereno.com>**

LINKEDIN AND **<https://www.linkedin.com/in/kereno>**
RECOMMENDATIONS