

NIV DAYAN

PERSONAL INFORMATION

Born in Israel, 1 February 1989

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phone +1-617-583-0830.

EDUCATION

*Harvard
University*

2015–current Postdoctoral Research in Computer Science

Investigating how to manage big data for scientific applications, particularly astronomy. Also doing research on adaptive database indexing and managing the internals of flash devices.

Advisors: Stratos Idreos, Pavlos Protopapas

*IT University of
Copenhagen*

2012–2015 PhD in Computer Science

Investigated how to design the internals of flash devices. Spent one exchange semester in New York University.

Advisors: Philippe Bonnet, Luc Bouganim, Dennis Shasha

*IT University of
Copenhagen*

2010–2012 MSc in Software Development and Technology

Specialized in algorithm design and database systems.

Advisor: Philippe Bonnet

*University of
Dundee*

2007–2010 BSc in Computing and Economics

PUBLICATIONS

CoRR 2015 Garbage Collection Techniques for Flash-Resident Page-Mapping FTLs. Niv Dayan, Philippe Bonnet.

CoRR 2015 Modelling and Managing SSD Write-Amplification. Niv Dayan, Luc Bouganim, Philippe Bonnet.

VLDB 2013 EagleTree: Exploring the Design Space of SSD-Based Algorithms (demo). Niv Dayan, Martin Kjaer Svendsen, Matias Bjoerling, Philippe Bonnet, Luc Bouganim.

CIDR 2013 The Necessary Death of the Block Device Interface. Matias Bjoerling, Philippe Bonnet, Luc Bouganim, Niv Dayan.

TEACHING

*IT University of
Copenhagen*

2014 Teaching Assistant

Helped MSc students in project work for a course on Database Tuning.

*University of
Dundee*

2009 Teaching Assistant

Helped first and second year BSc students on programming assignments.

SOFTWARE

1012 - present EagleTree - SSD Simulator

A simulation framework for analysing the behaviour of SSDs, available at
<https://github.com/ClydeProjects/EagleTree>.

WORK EXPERIENCE

<i>Podio, Denmark</i>	<i>2012</i>	Data Analyst Analysed web user behaviour and engagement.
<i>Sunstone Capital, Denmark</i>	<i>2012</i>	Data Analyst Analysed industry trends and described Sunstones competitors using data mining and statistical methods.
<i>Netmester, Denmark</i>	<i>2011-2012</i>	Web Developer Worked as a C# back-end developer two days a week while studying.
<i>Academia Sinica, Taiwan</i>	<i>2010</i>	Research Assistant Adapted parts of a fluid dynamics simulator to run in parallel using the CUDA framework.
<i>Calico Jack, Scotland</i>	<i>2009</i>	Web Developer Interned as a Ruby back-end developer on a system that automates communication between hospitals and patients.

REFEREES

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Prof. Luc Bouganim
INRIA Paris-Rocquencourt
78153 Le Chesnay, France
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OTHER INFORMATION

<i>Languages</i>	ENGLISH · Fluent HEBREW · Fluent DANISH · Intermediate
<i>Interests</i>	guitar · drums · song-writing · science fiction

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