

# NIV DAYAN

## PERSONAL INFORMATION

*Born in Israel, 1 February 1989*

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## 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

MSc course in database tuning.

*University of  
Dundee*

*2009*                        Teaching Assistant

BSc course in programming.

## 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>	2012	Data Analyst	Analyzed web user behavior and engagement.
<i>Sunstone Capital, Denmark</i>	2012	Data Analyst	Analyzed industry trends and characterized investment firms using machine learning techniques.
<i>Netmester, Denmark</i>	2011-2012	Web Developer	C# back-end web development.
<i>Academia Sinica, Taiwan</i>	2010	Research Assistant	Adapted a fluid dynamics simulator to run on a GPU.
<i>Calico Jack, Scotland</i>	2009	Web Developer	Ruby back-end and front-end web development.

## OTHER INFORMATION

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

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