

# NIV DAYAN

## PERSONAL INFORMATION

*email*                      nivdayan@gmail.com  
*website*                    nivdayan.github.io

## 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

SIGMOD 2017	Monkey: Optimal Navigable Key-Value Store. Niv Dayan, Manos Athanassoulis, Stratos Idreos.
SIGMOD 2017	Data Canopy: Accelerating Exploratory Statistical Analysis. Abdul Wasay, Xinding Wei, Niv Dayan, Stratos Idreos.
SIGMOD 2016	GeckoFTL: Scalable Flash Translation Techniques for Very Large Flash Devices. Niv Dayan, Philippe Bonnet, Stratos Idreos.
Demo@VLDB 2013	EagleTree: Exploring the Design Space of SSD-Based Algorithms. 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

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

## OTHER INFORMATION

*Interests*      guitar · drums · song-writing · science fiction

March 30, 2017