

Curriculum Vitæ - Anders Øland

CONTACT INFORMATION Anders Oland
Computer Science Department
Carnegie Mellon University
5000 Forbes Avenue
Hillman Building, Room 7709
Pittsburgh, PA 15213, USA

e: anderso@cs.cmu.edu
w: andersoland.com



NATIONALITY Danish

GENDER Male

ABSTRACT I am a Grammy award-winning music producer and songwriter - turned computer scientist. I wrote my first song at age seven and my first computer program when I was ten; now I am realizing my old dream of doing research in Computational Music Production (CMP). As a teenager I skipped out of high school to work professionally with programming and music for games on the Commodore 64 and Amiga. It was in relation to this that my interest in machine learning was ignited - and I ordered my first book on neural networks from the MIT Press. When I was twenty years old I started my own music studio, and only two years later one of my songs became a worldwide number one hit.

RESEARCH INTERESTS Deep Learning, Artificial Intelligence, Computational Music Production, Blind Source Separation, Music Audio Signal Processing, Large-Scale Distributed Learning, Music Information Retrieval.

EDUCATION **Carnegie Mellon University**, Pittsburgh, USA

Ph.D. Computer Science

August 2012 – Present

- Advisers: Prof. Roger B. Dannenberg & Prof. Bhiksha Raj
- Expected graduation: Spring 2018

IT University of Copenhagen, Copenhagen, Denmark

B.Sc. Software Development

August 2009 – July 2012

PUBLICATIONS REDUCING COMMUNICATION OVERHEAD IN DISTRIBUTED LEARNING BY AN ORDER OF MAGNITUDE (ALMOST), Anders Oland & Bhiksha Raj, 2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

GRANT Seed Grant, Adobe

Fall 2015

INTERNSHIPS Creative Technologies Lab @ Adobe
Mentor: Dr. Gautham J. Mysore

May – July 2015

- Research Project: Deep learning for audio signal processing.

MUSIC AWARDS Grammy Award, *Club hit of the year*, 2000
Danish Music Award, *Dance Album of the year*, 2001
Dance Award, *Album of the year*, 2000
Danish DJ Award, 2000
Danish DJ Award, 2001

MUSIC SELECTED WORK <i>Please refer to website for more information</i>	<p>“Doctor Jones”, AQUA, <i>Worldwide no. 1 hit single</i>, 1997</p> <p>“Dooh Dooh”, Barcode Brothers, <i>Grammy award-winning hit single</i>, 1999</p> <p>“Around the World”, AQUA, <i>Worldwide hit single</i>, 2000</p> <p>“Flute”, Barcode Brothers, <i>International hit single</i>, 2000</p> <p>“Swipe Me”, Barcode Brothers, <i>Platinum-selling, award-winning album</i>, 2000</p> <p>“SMS”, Barcode Brothers, <i>International hit single</i>, 2002</p> <p>“BB02”, Barcode Brothers, <i>Hit album</i>, 2002</p> <p>“V-Songs”, Anders Oland, <i>Solo album</i>, 2004</p> <p>“SOMETIMEBOY”, Anders Oland, <i>Solo album</i>, 2009</p>	1997 – Present
MUSIC PROFESSIONAL EXPERIENCE	<p>Universal Music, Copenhagen, Denmark</p> <p><i>Artist, Barcode Brothers</i></p> <p>Warner/Chappell Music, Copenhagen, Denmark</p> <p><i>Songwriter</i></p> <p>XL Talent Partnership, London, England</p> <p><i>Artist & Producer</i></p> <p>Barcode Brothers, Copenhagen, Denmark</p> <p><i>Producer, Songwriter, Singer & Musician</i></p>	<p>1999 – 2004</p> <p>2000 – Present</p> <p>1999 – 2007</p> <p>1999 – Present</p>
TEACHING	<p>Carnegie Mellon University, Pittsburgh, USA</p> <p><i>Teaching Assistant</i></p> <ul style="list-style-type: none"> • Deep Learning (graduate level) • Introduction to Computer Music <p>IT University of Copenhagen, Copenhagen, Denmark</p> <p><i>Teaching Assistant</i></p> <p>Teaching assistant for undergraduate courses in:</p> <ul style="list-style-type: none"> • Algorithms & Datastructures • Analysis, Design, and Software Architecture (taught in English) • Object-oriented Software Construction • IT Foundations (taught in English) 	<p>2013 – 2016</p> <p>2011 – 2012</p>
PREVIOUS RESEARCH & PROJECTS	<p>IT University of Copenhagen, Copenhagen, Denmark</p> <p><i>Bachelor’s Thesis</i></p> <p>Real-time polyphonic pitch-detection for the harpsichord using machine learning - intended to be used in a computer accompaniment system (developed by Richard Stern @ CMU).</p> <p>Supervised by</p> <p>Prof. Roger B. Dannenberg @ Carnegie Mellon University Dr. Joseph Kiniry @ IT University of Copenhagen</p>	<p>January 2012 – June 2012</p>

PROGRAMMING SKILLS C/C++, CUDA, MATLAB, C#, F#, Java, Julia, Perl, Assembly, and more.
I wrote my first BASIC program at age ten, and was a part of the legendary C64 demoscene for many years. Please refer to [my website](#) for more information

MUSICAL SKILLS I wrote my first song at age seven, and I have more than 14 years of professional experience in songwriting, music production and performance (500+ concerts). I sing and play the guitar and the piano, and I have extensive hands-on experience with a vast amount of DAWs, plug-ins, recording gear, synths, samplers et cetera.