

Curriculum Vitæ - Anders Øland

CONTACT INFORMATION Anders Oland
Computer Science Department
Carnegie Mellon University
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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; currently I am realizing my old dream of doing research in neural networks.

RESEARCH INTERESTS Deep Learning Algorithms & Theory, Computer Vision, Large-Scale Distributed Learning, Blind Source Separation, Signal Processing, Computational Music Production.

PH.D. THESIS **Efficient Deep Learning**

Thesis Committee

- Prof. Ruslan Salakhutdinov (CMU, Director of AI Research @ Apple)
- Dr. Douglas Eck (Google Magenta / Brain)
- Prof. Zico Kolter (CMU)
- Prof. Roger B. Dannenberg (CMU)
- Prof. Bhiksha Raj (CMU)

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

Ph.D. Computer Science

August 2012 – Present

- Expected graduation: Summer 2018

IT University of Copenhagen, Copenhagen, Denmark

B.Sc. Software Development

August 2009 – July 2012

INTERNSHIP Creative Technologies Lab @ Adobe

Summer 2015

GRANTS & FELLOWSHIPS Adobe Seed Grant

2015

Northrop Grumman Fellowship

2017

PUBLICATIONS BE CAREFUL WHAT YOU BACKPROPAGATE: A CASE FOR LINEAR OUTPUT ACTIVATIONS & GRADIENT BOOSTING, Anders Oland, Aayush Bansal, Roger B. Dannenberg & Bhiksha Raj

VOICE DISGUISE BY MIMICRY: DERIVING STATISTICAL ARTICULOMETRIC EVIDENCE TO EVALUATE CLAIMED IMPERSONATION, Singh, R., Jimenez, A. & Oland, A. (2017, February 17). IET Biometrics. Institution of Engineering and Technology (IET)

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)

UPCOMING PUBLICATIONS GREEDY LAYER-WISE TRAINING OF DEEP NEURAL NETWORKS, Oland, Raj & Dannenberg

CLOSED-FORM SOLUTIONS TO LOGISTIC REGRESSION & RELATED MODELS, Oland, Dannenberg & Raj

MUSIC AWARDS	Grammy Award, <i>Club hit of the year</i> , 2000 Danish Music Award, <i>Dance Album of the year</i> , 2001 Dance Award, <i>Album of the year</i> , 2000 Danish DJ Award, 2000 Danish DJ Award, 2001	
MUSIC SELECTED WORK <i>Please refer to website for more information</i>	“Doctor Jones”, AQUA, <i>Worldwide no. 1 hit single</i> , 1997 “Doooh Doooh”, Barcode Brothers, <i>Grammy award-winning hit single</i> , 1999 “Around the World”, AQUA, <i>Worldwide hit single</i> , 2000 “Flute”, Barcode Brothers, <i>International hit single</i> , 2000 “Swipe Me”, Barcode Brothers, <i>Platinum-selling, award-winning album</i> , 2000 “SMS”, Barcode Brothers, <i>International hit single</i> , 2002 “BB02”, Barcode Brothers, <i>Hit album</i> , 2002	1988 – Present
MUSIC PROFESSIONAL EXPERIENCE	Universal Music , Copenhagen, Denmark <i>Artist, Barcode Brothers</i>	February 1999 – 2004
	Warner/Chappell Music , Copenhagen, Denmark <i>Songwriter</i>	2000 – Present
	XL Talent Partnership , London, England <i>Artist & Producer</i>	1999 – 2007
	Barcode Brothers , Copenhagen, Denmark <i>Producer, Songwriter, Singer & Musician</i>	1999 – Present
TEACHING	Carnegie Mellon University , Pittsburgh, USA <i>Teaching Assistant</i> Deep Learning (graduate level) Introduction to Computer Music	2013 - 2016
	IT University of Copenhagen , Copenhagen, Denmark <i>Teaching Assistant</i> Algorithms & Datastructures Analysis, Design, and Software Architecture Object-oriented Software Construction IT Foundations	2010 – 2012
UNDERGRAD RESEARCH & PROJECTS	IT University of Copenhagen , Copenhagen, Denmark <i>Bachelor’s Thesis</i> Real-time polyphonic pitch-detection for the harpsichord.	January 2012 – June 2012
	IT University of Copenhagen , Copenhagen, Denmark <i>Machine Learning and its Applications to Music</i> Explorations in various applications of machine learning to music.	Fall 2011
PROGRAMMING SKILLS	MATLAB, Python, CUDA, C/C++, C#, F#, Java, Julia, Assembly, and more. <i>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</i>	