

Joachim Fainberg

CONTACT INFORMATION	Kampengt. 24 0654 Oslo Norway	UK: +44 7522525581 Norway: +47 48203885 joachimfainberg@gmail.com
EDUCATION	University of Edinburgh	
	<i>PhD in Multi-Domain Speech Recognition</i>	2015 – 2018
	In progress. Supervised by Prof. Steve Renals, Dr. Peter Bell and Gary Kazantsev (Bloomberg). Funded by Bloomberg Inc.	
	Additional academic activities: Marker for Master level modules in Machine Translation (Adam Lopez) and Automatic Speech Recognition (Steve Renals / Hiroshi Shimodaira).	
	University of Edinburgh	
	<i>Artificial Intelligence MSc</i>	2014 – 2015
	Distinction.	
	Subjects include: Advanced Natural Language Processing, Machine Translation, Machine Learning & Pattern Recognition, Probabilistic Modelling & Reasoning, Speech Processing, Automatic Speech Recognition, Speech Synthesis	
	Dissertation: "Improving Speech Recognition of Children's Speech by Out of Domain Data Augmenta- tion" (90%), supervised by Prof. Steve Renals and Dr. Mike Lincoln (Quorate Technology Limited).	
	University of Surrey	
	<i>Tonmeister/Music & Sound Recording BMus [BSc] (Hons)</i>	2010 – 2014
	First degree with honours.	
	Course representative for the Tonmeister students of 2014.	
	Subjects include: Audio Engineering, Audio Signal Processing, Electronics, Acoustics, Computer Audio Systems, Electroacoustics, Score Studies, Performance and Jazz Studies.	
	Dissertation: "Sound Source Separation in Reverberant Environments Using Interaural Coherence in a Probabilistic Model of Localisation" (83%), supervised by Dr. Christopher Hummersone.	
	University of Oslo	
	<i>Have taken and passed the following subjects:</i>	2008 – 2011
	<ul style="list-style-type: none">◦ Calculus (MAT1100)◦ Introduction to Psychology (PSY1000)◦ Linear Algebra (MAT1120)◦ Electromagnetism (FYS1120)	
	Online courses	
	<i>Have taken and passed the following courses:</i>	2012 – 2013
	<ul style="list-style-type: none">◦ Introduction to Data Science - distinction (Coursera: University of Washington)◦ Coding the Matrix: Linear Algebra through CS Applications - distinction (Coursera: Brown Uni.)◦ 6.00x Introduction to Computer Science and Programming - 90% (edX: MITx)◦ Learn to Program: The Fundamentals (Coursera: University of Toronto)◦ The HW/SW Interface (Coursera: University of Washington)	
	Oslo Cathedral High School	
	<i>Apart from the mandatory modules, the following were taken to A-level equivalent:</i>	2006 – 2008
	Mathematics, Physics, Chemistry, Italian and German.	
	New York Film Academy	
	<i>Received diploma in filmmaking at Harvard University under the direction of NYFA.</i>	2008
	Scuola da Vinci Firenze	
	<i>One month Italian language course in Florence, Italy.</i>	2008
SCHOLARSHIPS	The Focusrite Prize for Technical Achievement	
	<i>For the most outstanding technical project by a final year student</i>	2014
	Runner up for Student of the Year	
	<i>For development on professional training year</i>	2014
	Performance Scholarship	
	<i>For first class results in degree programme (University of Surrey)</i>	2011, 2012, 2013

EMPLOYMENT

CereProc, Edinburgh, Scotland*Norwegian Language Consultant*

2015-2016

Constructed a Norwegian phoneset, normalisation and syllabification rules, and corresponding data required to build a Norwegian synthesis voice.

Charcoalblue LLP, London, England*Theatre Consultant*

2012 – 2013

Main responsibility was to assist and consult in all aspects of audiovisual and acoustic design. Took on lead audiovisual design for a major, international technology company. Project included a complex DSP backbone. Consultancy work includes: Royal College of Music, London; The National Theatre, London; St Paul's School, London; Music & Drama Schools, Brighton College; Hampstead Theatre Studio, London; The Southbank Centre, London; St Ann's Warehouse, Brooklyn; PRATT Institute, Brooklyn; St Anne/St Agnes, London; Bristol Old Vic, Bristol; Donmar Warehouse Studios, London; Queen Elizabeth Hall, Antwerp; South East Dance, Brighton; National Skills Academy, Purfleet; LAMDA, London; Leys School, Cambridge; Everyman Playhouse, Liverpool; CAST, Doncaster; Chicago Shakespeare Theatre, Chicago.

Visual ACT AB, Stockholm, Sweden*Mechanic, QA, operator, translator*

2004 – 2011

Worked on nine large projects involving the fitting of large, industrial stage machinery to a range of theaters and opera houses in Scandinavia, including the new opera house in Oslo and the Royal Danish Playhouse. Work ranged from mechanical installation and software tests to load measurements, swapping hardware and translating technical documents from English and Swedish to Norwegian.

Oslo Kru AS, Oslo, Norway*Follow spot operator at the Eurovision Song Contest 2010*

2010 – present

Part of a team of 12 follow-spot operators for a month. Was later offered and accepted job to be part of team of three follow spot operators at the ESC Jr. Norway Final.

Vallhall Gym and Therapy Centre, Oslo, Norway*Receptionist*

2009 – 2010

Full responsibilities for opening and closing the centre. Dealt with a wide variety of clients.

Oslo Nye Teater (New Oslo Theater), Oslo, Norway*Follow spot operator and designer on "Les Miserables"*

2009

Designed the lighting of two follow spots in conjunction with the lighting designer. Taught three operators how to run the show and operated the follow spot on 60 of 100 performances.

Monster Entertainment AS / TV2, Oslo, Norway*Follow spot operator on "Skal vi danse", live broadcast (Dancing with the Stars)*

2009

Worked in a team of four.

The Norwegian National Opera & Ballet, Oslo, Norway*Extra*

1997 – 2010

Worked as an extra in eight operas and ballets with up to 15 performances of each play.

MUSIC AWARDS

Croser-Hughes Chamber Music Competition*"Highly Commended" for the performance of Ireland's "Fantasy Sonata"*

2011

The Adriano Bush Memorial Prize*For best performance of a piece of Romantic piano music*

2011, 2012

PUBLICATIONS

- [1] Joachim Fainberg, Peter Bell, Mike Lincoln, and Steve Renals. Improving children's speech recognition through out of domain data augmentation (In submission). In *Interspeech 2016*, 2016.
- [2] Christopher Hummersone, Joachim Fainberg, and Martin Dewhirst. Binaural computational auditory scene analysis in reverberant environments using a histogrammic localisation algorithm (In submission). *IEEE Transactions on Acoustics, Speech and Signal Processing*, 2016.