

Alexander Rosenberg Johansen's Resume

PERSONAL INFORMATION

Phone:	(+45) 5360-1352	Github:	github.com/alrojo
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PROFESSIONAL EXPERIENCE

2019 – Neural Business IVS (CVR: 40339965)
Connecting students with deep learning opportunities.

2018 – 2019 Technical University of Denmark
Research Assistant, teaching courses and supervising 30 students.

2017 – 2018 Salesforce Research
Deep learning research, intern. Supervised by Richard Socher.

2016 Technical University of Denmark
Teaching assistant in Deep Learning (TensorFlow/Theano)

2015 – 2016 Consultant for seez.co (Emerati start-up)
Backend development and car/license plate recognition

2015 Technical University of Denmark
Teaching assistant in introduction to programming (Matlab, R, Python)

Volunteering

2019 – Neural-ai.dk
Board member, arranging student AI expos

EDUCATION

2014 – 2017 Technical University of Denmark (DTU), Denmark
MSc in Mathematical Modelling and Computing, on the Elite Honours track, specializing in Deep Learning. The first part was software engineering centred and the latter devoted to research on deep learning. Final GPA is 11.44 (-3 to 12)

2015 Exchange: Nanyang Technological University (NTU), Singapore
My exchange study was devoted to research on deep learning methods and resulted in an IEEE-ICASSP publication.

2011 – 2014 Copenhagen Business School (CBS), Denmark
BSc in Business Administration and Information Systems. Final GPA is 10.70 (-3 to 12)

2013 Exchange: Lincoln University, New Zealand

ACHIEVEMENTS

Started the tensorflow.contrib.seq2seq library, commit id: #4761, #4686, #4382
+1,800 star Github repository
Top 17% (whale recognition) and 26% (diabetic retinopathy) on Kaggle
Received \$12,000 in scholarships for my exchange studies.
Assisted reviews (through Richard Socher) for ICML2017 and NIPS2017

TECHNICAL

Software Development

My BSc and the first part of my MSc focused on software engineering with Python, Java, SQL, F#, Matlab, Prolog and PHP. Moreover, I have learned Linux, Git, Vim and Latex independently.

Mathematical Modelling

At my MSc I have delved into topics on deep learning and algorithms & data structures. I currently work in PyTorch and previously with TensorFlow, Theano and Lasagne. Further, I have experience in parallel algorithms and CUDA.

PUBLICATIONS: JOURNALS

V. Jurtz, [A. Johansen](#), M. Nielsen, J. Armenteros, H. Nielsen, C. Sønderby, O. Winther and S. Sønderby, "An introduction to deep learning on biological sequence data: examples and solutions" BIOINFORMATICS Volume 33, Issue 22, Pages 3685-3690, Oxford University Press

PUBLICATIONS: CONFERENCES

[A. Johansen](#), C. Sønderby, S. Sønderby and O. Winther, "Deep recurrent conditional random field for protein secondary structure prediction" 2017 ACM-BCB

A. Mohebbi, T. Aradóttir, [A. Johansen](#), H. Bengtsson, M. Fraccaro, M. Mørup, "A deep learning approach to adherence detection for type 2 diabetics" 2017 IEEE-EMBS

[A. Johansen](#), J. Jin, T. Maszczyk, J. Dauwels, S. Cash and M. Westover, "Epileptiform spike detection via convolutional neural networks" 2016 IEEE-ICASSP

PUBLICATIONS: WORKSHOPS AND SYMPOSIUMS

[A. Johansen](#), R. Socher, "Learning when to skim and when to read" 2017 ACL REPL4NLP

[A. Johansen](#), J. Hansen, E. Obeid, C. Sønderby and O. Winther, "Neural Machine Translation with Characters and Hierarchical Encoding" 2016 NIPS RNN SYMPOSIUM

PATENTS

[A. Johansen](#), B. McCann, J. Bradbury, R. Socher, "Probability-Based Guider", US Patent App. 15/853,530, 2018

[A. Johansen](#), B. McCann, J. Bradbury, R. Socher, "Deep Neural Network-Based Decision Network", US Patent App. 15/853,570

BLOG POSTS

Learning when to skim and when to read (from the ACL REPL4NLP paper above)

Social impact (twitter/facebook): +100k impressions with 15k visitors

<https://einstein.ai/research/learning-when-to-skim-and-when-to-read>

PERSONAL INTERESTS

Sustainability and the welfare of our planet is a key topic to me. I use my technical skills in my spare time on subjects such as rare species detection (whales).