Alexander Rosenberg Johansen's Resume

PERSONAL INFORMATION

Phone:	(+45) 5360-1352	Github:	github.com/alrojo
D.O.B.:	29-06-1991	Twitter:	twitter.com/alexrosejo
Nationality:	Danish	LinkedIn:	linkedin.com/in/alexrosejo/
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PROFESSIONAL EXPERIENCE

2018 –   **Technical University of Denmark**
Research Assistant, co-teaching 02456:Deep Learning
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

2018 –   **Deep Learning Copenhagen**
Organizing events with accumulated +1000 participants and sponsors including
KPMG, Novo Nordisk, Oticon and Nordea, see meetup.com/Deep-Learning-DTU/

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 centered 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.

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.

ACADEMIC WORK

SUPERVISION	15 M.Sc. thesis' (full time 4.5 months), 30 Special courses (9 hr/w 4.5 months)
TEACHING	Deep Learning (02456), Deep Reinforcement Learning, Reinforcement Learning
REVIEWER/PC	ICML-2017, NIPS-2017, CoNLL-2018, CoNLL-2019, AAAI-2020

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" ACM-BCB-2017

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

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

PUBLICATIONS: WORKSHOPS, SYMPOSIUMS AND ABSTRACTS

A. Madsen, A. Johansen, "Measuring Arithmetic Extrapolation Performance" NeurIPS-2019 SEDL

J. Armenteros, A. Johansen, O. Winther, H. Nielsen, "Language modelling for biological sequences - curated datasets and baselines" NeurIPS-2019 LMRL

J. Armenteros, A. Johansen, O. Winther, H. Nielsen, "Learning the Language of Life" ISMB/ECCB-2019

A. Johansen, R. Socher, "Learning when to skim and when to read" ACL-2017 REPL4NLP

A. Johansen, J. Hansen, E. Obeid, C. Sonderby and O. Winther, "Neural Machine Translation with Characters and Hierarchical Encoding" NIPS-2016 RNN SYMPOSIUM

UNDER REVIEW

A. Madsen, A. Johansen, "Neural Arithmetic Units" ICLR-2020

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-2017 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

Building a strong deep learning community in Copenhagen, which I pursue through my work at the Technical University of Denmark and Deep Learning Copenhagen.