

Jose Juan Almagro Armenteros

PHD STUDENT, M.S.C IN BIOINFORMATICS

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Skills

Teaching	Supervision of 8 Master's Thesis, 3 Bachelor's Thesis and 4 special courses. Teaching in 1 international and 4 domestic courses.
Presentations	Speaker at 1 international conference and 2 domestic conferences. Poster presentation at 4 international conferences and 2 domestic conferences.
Scientific	Machine learning: Deep Learning with focus on Convolutional and Recurrent Neural Networks. Statistics. Protein data: Subcellular localization and sorting signals. NGS analyses.
Programming Languages	Python (Numpy, Tensorflow, PyTorch and Theano), Bash, R, Go, HTML, C++ and CSS. Spanish (Native), English (Full professional proficiency), Danish (Advance level)

Education

Technical University of Denmark

PHD DEGREE IN BIOINFORMATICS - AWAITING FOR DEFENSE

Kongens Lyngby, Denmark

December 2016 - Present

- Research on deep learning methods for predicting the subcellular localization of proteins and the sorting signals involved in this process.

University of Copenhagen

MASTER'S DEGREE IN BIOINFORMATICS

Copenhagen, Denmark

September 2014 - August 2016

- Grade: 10.80/12.00

Polytechnic University of Valencia

BACHELOR'S DEGREE IN BIOTECHNOLOGY

Valencia, Spain

September 2014 - August 2016

- Grade: 7.40/10.00, High Academic Performance Group

Experience

Technical University of Denmark

PHD STUDENT

Kongens Lyngby, Denmark

December 2016 - Present

- Research on deep learning methods for predicting the subcellular localization of proteins and the sorting signals involved in this process.

Technical University of Denmark

RESEARCH ASSISTANT

Kongens Lyngby, Denmark

September 2016 - November 2016

- Development of a bionformatic tool for prediction of protein subcellular localization: DeepLoc.

University of Copenhagen

MASTER'S THESIS

Copenhagen, Denmark

February 2016 - August 2016

- Prediction of protein subcellular location using Deep Learning. *Grade: 12.00/12.00.*

Center for Genomic Medicine, Rigshospitalet

STUDENT PROJECT

Copenhagen, Denmark

November 2015 - February 2016

- Analysis of differentially methylated regions in patients with myelodysplastic syndrome using targeted next-generation sequencing.

Chr. Hansen

STUDENT PROJECT

Copenhagen, Denmark

September 2015 - November 2015

- Improving SNP-search; A tool for understanding bacterial genomic variations.

Biotech Research & Innovation Center (BRIC)

BIOINFORMATICIAN STUDENT ASSISTANT

Copenhagen, Denmark

November 2014 - August 2016

- Galaxy distribution maintenance, Linux system administrator and NGS analyses.

Bioinformatics and Genomic Department of CIPF

BACHELOR'S THESIS

Valencia, Spain

January 2014 - July 2014

- Development of a pipeline for genomic assembly and its application in the genus Citrus. *Grade: 9.50/10.00.*

Presentations

ISMB/ECCB 27th Conference on Intelligent Systems for Molecular Biology and the 18th European Conference on Computational Biology

Basel, Switzerland

SPEAKER

July 2019

- Title. Learning the language of life

Deep Learning Workshop 2019 Copenhagen: Theory, Algorithms and Applications

Copenhagen, Denmark

SPEAKER

April 2019

- Title. The language of life

4th Annual Danish Bioinformatics Conference

Odense, Denmark

SPEAKER

August 2018

- Title. SignalP 5.0: improved signal peptide predictions across the tree of life using deep neural networks

Publications

Almagro Armenteros JJ, Salvatore M, Emanuelsson O, Winther O, Von Heijne G, Elofsson A, Nielsen H. **Detecting sequence signals in targeting peptides using deep learning.** Life science alliance. 2019 Oct 1;2(5).

Almagro Armenteros JJ, Tsirigos KD, Sønderby CK, Petersen TN, Winther O, Brunak S, von Heijne G, Nielsen H. **SignalP 5.0 improves signal peptide predictions using deep neural networks.** Nature biotechnology. 2019 Apr;37(4):420.

Jurtz VI, Johansen AR, Nielsen M, Almagro Armenteros JJ, Nielsen H, Sønderby CK, Winther O, Sønderby SK. **An introduction to deep learning on biological sequence data: examples and solutions.** Bioinformatics. 2017 Aug 23;33(22):3685-90.

Almagro Armenteros JJ, Sønderby CK, Sønderby SK, Nielsen H, Winther O. **DeepLoc: prediction of protein subcellular localization using deep learning.** Bioinformatics. 2017 Jul 7;33(21):3387-95.