

# Logbook Bachelorproject

Philip Bouman (10668667)

[phielp@gmail.com](mailto:phielp@gmail.com)

Start 12 April 2017

## Week 1

- Wrote tenders, assignment 1

## Week 2

11 April

- Received project assignment

12 April

- First email contact with supervisor

13-14 April

- Explored Convolutional neural networks
- Read paper "ImageNet Classification with Deep Convolutional Neural Networks"
- Watched some video's: introduction to CNN, CS231n (Stanford CNN course)
- Started logbook, github repository

## Week 3

18 April

- Worked on CMap for literature draft assignment
- Worked on AI research assignment
- Searched for related literature + reading
- Had a video conversation with supervisor

19 April

- Worked on CMap
- Read articles
- Wrote for literature review
- Looked at articles and information sent by supervisor

20 April

- Worked on project proposal
- Read articles
- Worked on tender assignment

21 April

- Worked on assignments 2 & 3

## Week 4

24 April

- Onderzoeksvoorstel, slides

25 April

- Worked on slides, assignment 4

26 April

- Presentation on project/research proposal
- Worked on proposal (assignment 5)

28 April

## **Week 5**

1 Mei

- Searched for sources of data

2 Mei

- Searched for sources of data
- Worked on web crawler for graphemica

3 Mei

- Extracted data from Omniglot (.xls)
- Adjusted CMap
- Started on ReadXLS.py

4 Mei

- Prepared sample of data
- Meeting supervisor about data, general idea of project, appointments

## **Week 6**

8 Mei

- Installed Keras library, dependencies
- Extracting data from Omniglot files
- Resolved problems with unicode

9 Mei

- Created initial dataset, still noisy

10 Mei

- Added phoneme features
- Phonological encoding scheme

11 Mei

- Worked on extracting data from xls files
- Adjusted report sections

12 Mei

- Literature review

## **Week 7**

15 Mei

- Research data representation for model
- Reading

16 Mei

- Adjusting Literature review

17 Mei

- Meeting with supervisor about data, report sections so far

18 Mei

- Literature review, assignment 6

19 Mei

- Collected fonts for dataset
- Started conversions for characters

## **Week 8**

22 Mei

- Added image conversions from characters

23 Mei

- Updated report

- Listed all phonemes and writings systems in data

24 Mei

- Meeting with supervisor
- Attended meeting from ILLC PHD's

26 Mei

- Reworked dataset, structuring

## **Week 9**

29 Mei

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30 Mei

- Adjustment phonological encoding scheme/ feature representations
- Collected edge cases dataset

31 Mei

- Worked on slides, assignment 7

1 Juni

- Worked on slides, assignment 7
- Prepared presentation

2 Juni

- Presentation on intermediate results
- Assignment 8

## **Week 10**

5 Juni

- Worked on report, assignment 8
- Reading on models

6 Juni

- Started on model/architecture

7 Juni

- Restructured folders and git

8 Juni

- Worked on model keras

9 Juni

- Test run model
- Altered data representations

## **Week 11**

12 Juni

- Converter for data for input shape model
- Divided data set in train and test

13 Juni

- Small adjustments for edge cases
- Worked on model

14 Juni

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15 Juni

- Meeting supervisor
- Worked on sequential model and test runs

16 Juni

- Worked on multi-output model and test runs
- Worked on IPAllookup.py

## **Week 12**

19 Juni

- Adjusted target features with info from segments\_final.txt
- Reduced number of features
- Added to data section
- Redid introduction and background report

20 Juni

- Meeting supervisor
- Worked on multi-output model and test runs
- Changed feature vectors
- Worked on report, data section

21 Juni

- Reworked some report sections
- Model runs, experiments

22 Juni

- Worked on report
- More experiments

23 Juni

- Experiments
- Added to report

## **Week 13**

26 Juni

- Meeting with supervisor about results, report
- Added to results section
- Cleaned up logbook