

# Rezka A. Leonandya

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## EDUCATION

### University of Amsterdam, Amsterdam, The Netherlands

#### ■ M.Sc in Artificial Intelligence

Sep 2016 – Present

- Thesis: Training neural networks to learn to follow instructions from small data
- Adviser: Dr. Germán Kruszewski, Dieuwke Hupkes
- Focus: Compositional semantics, online training, fast language mapping, and natural language processing.
- Current Cumulative GPA: 7.8 / 10

### University of Indonesia, Jakarta, Indonesia

#### ■ B.S. in Computer Science

Aug 2011 – Aug 2015

- Undergraduate Thesis: A semi-supervised approach for Indonesian named entity recognition
- Focus: Natural Language Processing and Information Retrieval
- Cumulative GPA: 3.22 / 4.00

## RESEARCH EXPERIENCE

### Machine Research Group, University of Amsterdam - Facebook AI Research Paris

#### ■ Graduate Research Student

Jan 2018 – Present

- Project: Investigations on training neural networks to learn to follow instructions from small data, particularly in subregular language and language games of SHRD LURN. This project is a part of my master thesis.
- Supervisors: Dr. Germán Kruszewski and Dieuwke Hupkes
- Focus: Compositional semantics, online training, fast language mapping, and natural language processing.

### Information Retrieval Lab, University of Indonesia

#### ■ Undergraduate Research Student

Jan 2015 – Jun 2015

- Project: Worked on my undergraduate thesis in named entity recognition for Indonesian language.
- Focus: Natural language processing, data mining, named entity recognition.

## PUBLICATIONS

### UNDER REVIEW

- [1] R. Leonandya, G. Kruszewski, D. Hupkes, and E. Bruni “Training neural networks to learn to follow instructions from small data,” under review in EMNLP 2018

### CONFERENCES

- [1] R. Leonandya, B.D. Trisedya, and N.H. Praptono, “A semi-supervised algorithm for Indonesian named entity recognition,” in *Proceedings of the 3rd International Symposium on Computational and Business Intelligence*, Bali, Indonesia, Dec 2015.

## AWARDS & SCHOLARSHIPS

#### ■ Indonesia Endowment Fund for Higher Education

2016 – 2018

Full scholarship for Master’s Education, covering living expenses and tuition fees

## WORK EXPERIENCE

### ZyLAB B.V., Amsterdam, The Netherlands

#### ■ Data Science Intern

Jul 2017 – Oct 2017

Implemented conditional random fields on Wikipedia dataset for named entity recognition for English, Dutch, and French languages. Work done under supervision of Prof. Johannes c. Scholtes, professor of text mining from University of Maastricht.

### PT Collective-Intelligence Agriculture, Jakarta, Indonesia

#### ■ Backend and Data Engineer

Jun 2015 – Jul 2015

Worked mostly on creating pipeline for data gathering from the farmers in the field to the system. Used play framework (java) to create API which connects to postgresql, and python for data crunching. Implemented k-means clustering for land segmentation based on fertility, ground altitude, and ground water level.

### PT Bukalapak.com, Jakarta, Indonesia

#### ■ Data Science Intern

Mar 2015 – May 2015

Worked on analytical dashboard of transaction data using RStudio to be further investigated by the marketing team.

<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>▪ Indonesian: Native language.</li> <li>▪ English: Professional working proficiency.</li> <li>▪ Malay: Intermediate proficiency.</li> </ul>
<b>SKILLS</b>	T <sub>E</sub> X, L <sup>A</sup> T <sub>E</sub> X, PyTorch, Tensorflow, Python, Java, C#, Linux, Matlab, R.
<b>RESEARCH INTERESTS</b>	Deep learning and sample-efficient methods for natural language processing, including topics such as, but not limited to: compositional semantics, fast language mapping, transfer learning, multi-task learning, semantic parsing, statistical parsing, interactive dialogue systems, and model-based reinforcement learning.
<b>REFERENCES</b>	<ul style="list-style-type: none"> <li>▪ <b>Dr. Germán Kruszewski</b> Postdoctoral Researcher Facebook AI Research Paris germank@fb.com</li> <li>▪ <b>Dr. Elia Bruni</b> Postdoctoral Researcher Dialogue Modelling Group University of Amsterdam elia.bruni@gmail.com</li> <li>▪ <b>Dieuwke Hupkes</b> PhD Student Institute of Logic, Language, and Computation University of Amsterdam dieuwkehupkes@gmail.com</li> </ul>

[CV compiled on 2018-05-25 for Research purpose]