

Rezka Leonandya

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EDUCATION

University of Amsterdam, Amsterdam, The Netherlands

- M.Sc in Artificial Intelligence Sep 2016 – Aug 2018
 - Thesis: Training neural networks to learn to follow instructions from small data
 - Adviser: Dr. Germán Kruszewski, Dieuwke Hupkes
 - Focus: Natural language processing, transfer learning, multi-task learning, dialogue learning.
 - Cumulative GPA: 7.7 / 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

Kata Research Team, Kata.ai

- Research Scientist Sep 2018 – Present
 - Projects: Pretrained language model transfer on neural named entity recognition in Indonesian conversational texts, dialogue response selection in Indonesian conversational chatbot, data augmentation for Indonesian conversational chatbot.
 - Focus: Natural language processing, conversational texts, transfer learning, multitask learning.

i-machine-think Research Group, University of Amsterdam - Facebook AI Research Paris

- Graduate Research Student Jan 2018 – Aug 2018
 - 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,” arXiv 2018

CONFERENCES

- [1] R. Leonandya, F. Ikhwantri “Pretrained language model transfer on neural named entity recognition in Indonesian conversational texts” in *Proceedings of the 20th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2019)*. to appear. La Rochelle, France, Apr 2019.
- [2] 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.

LANGUAGES

- Indonesian: Native language.
- English: Professional working proficiency.
- Malay: Intermediate proficiency.

SKILLS

T_EX, L^AT_EX, PyTorch, Tensorflow, Python, Java, C#, Linux, Matlab, R.

RESEARCH INTERESTS

Deep learning and sample-efficient methods for natural language processing, including topics such as, but not limited to: few shot learning, transfer learning, multi-task learning, semantic parsing, syntactic parsing, and dialogue systems

REFERENCES

- **Dr. Germán Kruszewski**
Postdoctoral Researcher
Facebook AI Research Paris
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- **Dr. Elia Bruni**
Postdoctoral Researcher
Dialogue Modelling Group University of Amsterdam
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- **Dieuwke Hupkes**
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[CV compiled on 2019-02-21 for Research purpose]