BRYAN EIKEMA

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EDUCATION

Ph.D. Student Natural Language Processing January 2019 - Present
Supervised by Dr. Wilker Ferreira Aziz
Institute for Logic Language and Computation, University of Amsterdam
Language and Computation Group

Master Artificial Intelligence 2015 - 2018
Master's Thesis: Auto-Encoding Variational Neural Machine Translation
University of Amsterdam *Cum Laude*

Bachelor Computer Science 2012 - 2015
Bachelor's Thesis: BGP Routing Security and Deployment Strategies
University of Amsterdam *Cum Laude*

PROJECTS

Auto-Encoding Variational NMT 2017-2018
University of Amsterdam
Supervisor: dr. Wilker Ferreira Aziz
Summary: I propose a deep generative model for neural machine translation that addresses variation inherent to bilingual training datasets. I furthermore extend this model to incorporate monolingual data during training by using semi-supervised learning.
Pre-print: `https://arxiv.org/abs/1807.10564`

Importance of Sampling in Large Discrete Action Spaces 2017
University of Amsterdam
Supervisors: dr. Artem Grotov & Harrie Oosterhuis
Summary: I propose a model for document retrieval based on policy gradient methods trained on list-level feedback. I show that good exploration is essential to learning policies in large discrete action spaces.

BGP Routing Security and Deployment Strategies 2015
University of Amsterdam
Supervisors: dr. Benno Overeinder & Stavros Konstantaras
Summary: I research the effects of deploying RPKI and Route Origin Validation, an infrastructure used to secure the Internets routing infrastructure based on BGP, on the security and performance of the Internet by simulating several deployment strategies.

TEACHING

Natural Language Processing II 2019
Master Artificial Intelligence, University of Amsterdam
Role: Teaching Assistant
Course contents: This course teaches about latent variable models for structure prediction for NLP, it covers models such as mixture models, HMMs, latent variable CRFs and deep generative models; learning paradigms such as MLE and approximate posterior inference.

HONORS & AWARDS

Young Talent Encouragement Award 2013
Discipline of Informatics and Technical Informatics
Royal Holland Society of Sciences and Humanities

LANGUAGES

Dutch (native), English (fluent), Romanian (intermediate)