Bruno **Gavranović**

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Computer Science student interested in the theoretical foundation of Machine and Deep Learning

Education

Faculty of Electrical Engineering and Computing, University of Zagreb	*Zagreb, Croatia*
MASTER STUDIES, COMPUTER SCIENCE	*2016. - present*
UNDERGRADUATE STUDIES, COMPUTER SCIENCE	*2013. - 2016.*

ETS Ingenieros Informáticos, Universidad Politécnica de Madrid	*Madrid, Spain*
MASTER STUDIES, ARTIFICIAL INTELLIGENCE	*Sept. 2016 - Feb. 2017*

- Semester abroad as a part of student exchange

Projects & experience

Differentiable Neural Computer — *Zagreb, Croatia*
SEMINAR PROJECT — *Feb. 2017. - May 2017.*

- Implemented DeepMind's 2016 Nature paper
- Neural network architecture represents state of the art in differentiable memory
- Trained the network on the Facebook bAbI synthetic question answering dataset

Improved Training of Wasserstein GANs — *Zagreb, Croatia*
ANALYSIS OF MASSIVE DATA SETS COURSE PROJECT — *Feb. 2017. - April.2017.*

- Implemented 2017 state of the art generative adversarial neural network architecture
- Trained the model on faces dataset and generated life-like images

Deep Learning for Sentiment Analysis — *Zagreb, Croatia*
BACHELOR THESIS — *Feb. 2016. - July 2016.*

- Trained deep LSTM networks on the task of sentiment classification
- Utilized advanced visualization methods to demystify deep neural network information processing

TakeLab (Text Analysis and Knowledge Engineering Lab) — *Zagreb, Croatia*
TAKELAB STUDENT — *Sept. 2015 - present*

- Research laboratory specializing in Natural Language Processing, Machine Learning and Text Analytics
- Completed several projects as a part of the university curriculum

Additional education, awards & recognition

2017	**Lecturer,** Petnica Summer School Machine Learning, Generative Adversarial Networks	*Petnica, Serbia*
2010. - 2017.	**Participant,** Various summer schools on Machine Learning, Programming and Physics	
2013.	**Winner,** National award "Oscar of Knowledge"	*Zagreb, Croatia*
2012.	**1st place,** National Astronomy Competition	*Rovinj, Croatia*
2012.	**Honorable mention,** 6th International Olympiad on Astronomy and Astrophysics	*Rio de Janeiro, Brazil*

Knowledge & Abilities

TECHNICAL SKILLS

- **Intermediate:** Python
- **Basic:** C\C++, Matlab, Java, LaTeX
- **Other:** linux, vim, git, tensorflow

LANGUAGES

- **English**: Full professional proficiency (C1.1)
- **Spanish**: Intermediate proficiency (B1)
- **Croatian**: Native proficiency

Interests & Activities

Interests	Mathematics, Deep Learning, Computer science, Physics, Piano, Guitar, Travel
Misc.	Alumni of BEST (Board of European Students of Technology)
	Member of the winning team in the Red Bull Gravity Challenge *Zagreb, 2015.*