

# 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

MASTER STUDIES, COMPUTER SCIENCE

UNDERGRADUATE STUDIES, COMPUTER SCIENCE

*Zagreb, Croatia*

*2016. - present*

*2013. - 2016.*

### ETS Ingenieros Informáticos, Universidad Politécnica de Madrid

MASTER STUDIES, ARTIFICIAL INTELLIGENCE

- Semester abroad as a part of student exchange

*Madrid, Spain*

*Sept. 2016 - Feb. 2017*

## Projects & experience

### Differentiable Neural Computer

SEMINAR PROJECT

- 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

*Zagreb, Croatia*

*Feb. 2017. - May 2017.*

### Improved Training of Wasserstein GANs

ANALYSIS OF MASSIVE DATA SETS COURSE PROJECT

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

*Zagreb, Croatia*

*Feb. 2017. - April. 2017.*

### Deep Learning for Sentiment Analysis

BACHELOR THESIS

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

*Zagreb, Croatia*

*Feb. 2016. - July 2016.*

### TakeLab (Text Analysis and Knowledge Engineering Lab)

TAKELAB STUDENT

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

*Zagreb, Croatia*

*Sept. 2015 - present*

## Additional education, awards & recognition

2017 **AI Grant finalist**, Reducing research debt by clearly communicating ideas in deep learning

2017 **Invited talk**, 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. **Honorable mention**, 6<sup>th</sup> International Olympiad on Astronomy and Astrophysics

*Rio de Janeiro, Brazil*

## Knowledge & Abilities

### TECHNICAL SKILLS

- **Intermediate:** Python
- **Basic:** C/C++, Haskell, Java,  $\LaTeX$
- **Other:** linux, vim, git, TensorFlow, PyTorch

### 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.*