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**IVANA BALAZEVIC**

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## EDUCATION

<b>Ph.D. Machine Learning</b> <ul style="list-style-type: none"><li>Focus: Representation Learning for Knowledge Graphs</li><li>Supervisors: Dr. Timothy Hospedales, Dr. Ivan Titov</li></ul>	<b>University of Edinburgh</b>	<b>Sep 17 - present</b>
<b>M.Sc. Res. Data Science (Distinction)</b> <ul style="list-style-type: none"><li>Thesis: Zero-Shot Learning on Novel Knowledge Base Relations; Supervisor: Dr. Timothy Hospedales</li></ul>	<b>University of Edinburgh</b>	<b>Sep 16 - Aug 17</b>
<b>M.Sc. Computer Science</b> <ul style="list-style-type: none"><li>GPA 1.2 (from 1.0 best to 5.0 worst) - top of class award</li><li>Thesis: Language Detection for Short Text Messages in Social Media; Supervisors: Dr. Klaus-Robert Müller, Dr. Mikio Braun</li></ul>	<b>Technical University Berlin</b>	<b>Oct 12 - Jun 15</b>
<b>B.Sc. Computer Science</b> <ul style="list-style-type: none"><li>GPA 4.5 (out of 5.0)</li><li>Thesis: Document Clustering Using Self-Organizing Neural Networks; Supervisor: Dr. Jan Snajder</li></ul>	<b>University of Zagreb</b>	<b>Sep 09 - Jul 12</b>

## PUBLICATIONS

I Balažević\*, C Allen\*, T Hospedales **Learning the Prediction Distribution for Semi-Supervised Learning with Normalising Flows** 2020  
C Allen, I Balažević, T Hospedales **A Probabilistic Framework for Discriminative and Neuro-Symbolic Semi-Supervised Learning** *arXiv:2006.05896*  
C Allen\*, I Balažević\*, T Hospedales **On Understanding Knowledge Graph Representation** *arXiv:1909.11611*  
I Balažević, C Allen, T Hospedales **Multi-relational Poincaré Graph Embeddings** *NeurIPS* 2019  
C Allen, I Balažević, T Hospedales **What the Vec? Towards Probabilistically Grounded Embeddings** *NeurIPS* 2019  
I Balažević, C Allen, T Hospedales **Tucker: Tensor Factorization for Knowledge Graph Completion** *EMNLP (oral)* 2019  
I Balažević, C Allen, T Hospedales **Hypernetwork Knowledge Graph Embeddings** *ICANN (oral)* 2019

## EXPERIENCE

<b>Research Scientist Intern</b>	<b>Facebook AI Research (FAIR), London</b>	<b>Jun 20 - Oct 20</b>
<b>Machine Learning Research Intern</b> <ul style="list-style-type: none"><li>Worked on semi-supervised learning and neuro-symbolic learning and reasoning.</li></ul>	<b>Samsung AI Centre, Cambridge</b>	<b>Nov 19 - May 20</b>
<b>Teaching Assistant (Tutoring)</b> <ul style="list-style-type: none"><li>Course: Machine Learning and Pattern Recognition</li></ul>	<b>University of Edinburgh</b>	<b>Sep 18 - Jan 19</b>
<b>Data Science Intern</b> <p>Wise.io Inc. uses Machine Learning and Data Science to improve customer support in different companies (Pinterest, Expedia, Groupon, etc.) by providing ticket classification and response recommendation.</p> <ul style="list-style-type: none"><li>Worked on improving Natural Language Processing algorithms for multilingual emails.</li></ul>	<b>Wise.io Inc. (GE Digital), Berkeley, CA</b>	<b>Nov 15 - Jul 16</b>
<b>Data Science Intern</b> <p>idalab GmbH is a data analytics consulting company.</p> <ul style="list-style-type: none"><li>Worked on two projects for different customers (Lovoo and Universal Music), analyzing time series and events data.</li></ul>	<b>idalab GmbH, Berlin</b>	<b>Apr 14 - Jun 14</b>
<b>Teaching Assistant (Marking)</b> <ul style="list-style-type: none"><li>Courses: Cognitive Algorithms, Python Programming for Machine Learning, Matlab Programming for Machine Learning</li></ul>	<b>Machine Learning Group, TU Berlin</b>	<b>Sep 13 - Jul 15</b>

## TECHNICAL SKILLS AND INTERESTS

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### Interests

- Representation Learning, Relational Learning for Knowledge Graphs, Tensor Factorization Methods, Interpretability, Non-Euclidean Geometry, Semi-Supervised Learning, Neuro-Symbolic Learning and Reasoning.

### Technical Skills

- Python, PyTorch, Tensorflow, NumPy, SciPy, Pandas, gensim, scikit-learn

## SCHOLARSHIPS AND AWARDS

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- Google CodeU 2018 program participant and coding challenge winner
- Best Students Award of the Class 2014/15
- DAAD Study Scholarship for Graduates of All Disciplines 2013-2014

## ADDITIONAL SKILLS AND COMPETENCES

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- CDT in Data Science Year Representative 2018/2019
- Organizer of the Advanced Scientific Programming in Python 2014 summer school
- Co-organizer of PyLadies Berlin 2012-2014