## Ivan Sekulić Lugano, Switzerland

## EDUCATION

Università della Svizzera italiana, Faculty of Informatics, Switzerland PhD Student • Supervisor: Fabio Crestani	March 2020 – present
Working on Conversational Information Retrieval	
<ul> <li>University of Zagreb, Faculty of Electrical Engineering and Computing, OMSc in Computer Science</li> <li>Thesis: Text-based Mental Disorder Prediction from Online Discussion Texts</li> <li>Erasmus+ student mobility at Warsaw University of Technology, Poland</li> </ul>	Croatia Sep 2015 – Jul 2018
<ul> <li>University of Zagreb, Faculty of Electrical Engineering and Computing, OBSc in Computer Science</li> <li>Thesis: Extraction of Semantic Verb Relations from Croatian Corpora</li> <li>Extracurricular subjects: DisCont Mathematics, Advanced Use of Linux Operating System, Programming in Haskell, Object Oriented Programming.</li> </ul>	Croatia Sep 2012 – Jul 2015
WORK EXPERIENCE	
<ul> <li>StatNLP, Singapore University of Technology and Design</li> <li>Research Intern</li> <li>Document-level relation extraction, under the supervision of prof. Wei Lu.</li> </ul>	Aug 2019 – Nov 2019
<ul> <li>HITS – Heidelberg Institute for Theoretical Studies, Germany</li> <li>Research Associate</li> <li>Deep learning methods for predicting mental health status in social media users. Supervisor: prof. Michael Strube.</li> </ul>	Oct 2018 – Jun 2019
<ul> <li>ReversingLabs, Croatia</li> <li>Data Analyst <ul> <li>Data Quality / Program Management team, ensuring consistency and cleanliness of large and diverse datasets.</li> </ul> </li> </ul>	Sep 2017 – Aug 2018
<ul> <li>TakeLab – Text Analysis and Knowledge Engineering Lab, Croatia</li> <li>Student Project Associate</li> <li>Improving customer experience through state-of-the-art natural language processing by predicting user's sentiment, emotions and actions.</li> </ul>	Jun 2016 – Oct 2017
<ul> <li>Ericsson Nikola Tesla, Croatia</li> <li>Summer Intern <ul> <li>Developed a proof-of-concept application that crawls the Web and extracts important information and relations between entities from downloaded articles.</li> </ul> </li> </ul>	Jul 2015 – Aug 2015

## PUBLICATIONS

Reasoning with Latent Structure Refinement for Document-Level Relation Extraction	
Guoshun Nan, Zhijiang Guo, <b>Ivan Sekulić</b> , Wei Lu	2020
<ul> <li>We tackle the problem of document-level relation extraction by inducing the la-</li> </ul>	
tent document-level graph, enabling the relational reasoning across sentences.	

- We reach 59.05 F1 on DocRED.
- To appear in *Proceedings of ACL 2020*

	Adapting Deep Learning Models for Mental Health Prediction on Social Media van Sekulić and Michael Strube		
-	hierarchical attention networks for the task of predicting social media ntal state in a large dataset, labeled for 9 different mental disorders;		
	in Proceedings of the 2019 EMNLP-IJCNLP Workshop W-NUT: Vorkshop on Noisy User-generated Text.		
Ivan Sekulić, M • We preserve	pressed: Bipolar Disorder Prediction on Reddit Matej Gjurković, and Jan Šnajder nt a preliminary study on bipolar disorder prediction from user- text on Reddit. Feature analysis shows differences in language use	2018	
between u	isers with bipolar disorders and the control group, while benchmark achieve accuracy over 85%;		
	in Proceedings of the 9th Workshop on Computational Approaches tivity, Sentiment and Social Media Analysis.		
Based Ensem		-	
	<b>Ivan Sekulić</b> , Paula Gombar, Ivan Paljak, Filip Čulinović, Filip n Karan, Domagoj Alagić, Jan Šnajder	2016	
algorithm. model usi	m uses an ensemble of learning algorithms, fine-tuned using a genetic We experiment with various off-the-shelf classifiers and build our ng standard lexical and a number of task-specific features. Ranked 20 teams in the international competition of semantic text analysis;		
<ul> <li>Published</li> </ul>	in Proceedings of SemEval-2016.		
<ul><li>Ivan Sekulić ar</li><li>We create</li></ul>	EAN : A Repository of Fine-Grained Semantic Verb Relations f ad Jan Šnajder VerbCROcean, a broad-coverage repository of fine-grained semantic namely similarity, intensity, antonymy, and happens-before, between	for Croatian 2016	
Croatian v	/erbs;		
	in Proceedings of the 10th edition of the Language Resources and n Conference.		
PROJECTS			
Deep Learnin MA Research Pr	ng Models for Facebook Customer Experience Analysis	Oct 2017 – Jan 2018	
<ul> <li>Emphasis</li> </ul>	on multi-task learning to simultaneously predict labels for sentiment, speech acts, and more.		
	RZA : Detecting Controversial Topics	Oct 2014 – Mar 2015	
	a system that analyzes Croatian news articles and determines their ontroversy. The whole project was written in Haskell, working in a	Oct 2014 – Mar 2015	
TECHNICAL SP	KILLS		
Advanced	<b>Python</b> – main language; Pytorch, Keras, scikit-learn, Pandas <b>Linux</b> – OS of choice, sysadmin work experience		
Novice	<ul> <li>C/C++ - used in university courses and competitive programming</li> <li>Haskell - used in university course and BA project</li> <li>R - university course and short experiments</li> <li>Java - used in university courses</li> <li>\mathbf{E}T_EX - used to write this CV and everything relevant</li> </ul>		
OTHER SKILLS	S AND INTERESTS		
Languages	Croatian (native), English (fluent), Polish (basic), German (basic)		
Intoracto	Chase Burghy		

Chess, Rugby

Interests