Rami Al-Rfou'

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Education

Sep 10 - May 15	**PhD in Computer Science**, *Stony Brook University*, Stony Brook, NY. PhD thesis proposal: *Polyglot: Massive multilingual Natural Language Processing Pipeline.*
Sep 04 - Feb 09	**BSc. in Computer Engineering**, *University of Jordan*, Amman, Jordan. Gpa: 3.79/4.0, ranked 4th of a 128-student class.
Sep 02 - Jun 04	**Secondary Education Diploma**, *Tafila Secondary School*, Tafila, Jordan. Percentage average: 97.4%, 99.9^{th} percentile nationwide.

Research Experience

Sep 11 - *present*	**Research Assistant**, *Stony Brook University*, Stony Brook, NY. Working in the Data Science Lab under the supervision of Prof. Steven Skiena developing a multilingual NLP pipeline.
May - Aug 13	**Research Intern**, *Microsoft*, New York City, NY. Worked with Léon Bottou on active learning and prior knowledge integration.
May - Aug 12	**Research Intern**, *Google*, Mountain View, CA. Designed a multilingual coreference resolution system with Jay Ponte.

Teaching Experience

Aug 10 - May 11	**Teaching Assistant**, *Stony Brook University*, Stony Brook, NY. Fall 2010: • Computer Science I (CSE114) • Computer Science III (CSE219) Spring 2011: • Analysis of Algorithms (CSE373)
Feb 09 - July 10	**Lab Instructor**, *Middle East Technical University*, TRNC. Designed new experiments for the Microprocessors lab (EE347) and wrote new manual for the Electricity and Magnetism Lab.

Development Experience

Jun - Aug 11	**Software Engineering Intern**, *Google*, Mountain View, CA. Worked on visualizing Google network infrastructure.
Apr - Dec 08	**Software Developer**, *Jovision*, Amman, Jordan. Developed new image processing fault detection algorithms for the JoInspector software using C# and MATLAB, the software is used in tire factories QA departments.

Publications

Aug 14	**DeepWalk: Online Learning of Social Representations.** Bryan Perozzi, Rami Al-Rfou, and Steven Skiena. *20th ACM SIGKDD 2014*, NYC, USA.
Mar 14	**Inducing Language Networks from Continuous Space Word Representations.** Bryan Perozzi, Rami Al-rfou, Vivek Kulkarni and Steven Skiena. *5th Workshop on Complex Networks*, Bologna, Italy.
Aug 13	**Polyglot: Distributed Word Representations for Multilingual NLP.** Rami Al-Rfou, Bryan Perozzi, and Steven Skiena. *CoNLL 2013*, Sofia, Bulgaria.
Jun 13	**The Expressive Power of Word Embeddings.** Yanqing Chen, Bryan Perozzi, Rami Al-Rfou, and Steven Skiena. *ICML Workshop 2013*, Atlanta, Georgia, USA.
Dec 12	**SpeedRead: A Fast Named Entity Recognition Pipeline.** Rami Al-Rfou and Steven Skiena. *COLING 2012*, IIT Bombay, Mumbai, India.

Technical Reports

Nov 14	**Statistically Significant Detection of Linguistic Change**.
	Vivek Kulkarni, Rami Al-Rfou, Bryan Perozzi, and Steven Skiena. (under review: arXiv:1411.3315)
Sep 14	**Polyglot-NER: Massive Multilingual Named Entity Recognition**.
	Rami Al-Rfou, Vivek Kulkarni, Bryan Perozzi, and Steven Skiena. (under review: arXiv:1410.3791)
Apr 12	**Detecting English Writing Styles For Non-native Speakers**.
	Rami Al-Rfou

Service

Reviewer	COLING 2014, EMNLP 2014.

Open Source Software

`polyglot`	Multilingual NLP pipeline.	`https://github.com/aboSamoor/polyglot`
`deepwalk`	Representation extractor of social networks.	`https://github.com/phanein/deepwalk`.
`word2embeddings`	Word embeddings trainer.	`http://bit.ly/embeddings`

Honors and Awards

Aug 10	**Stony Brook Computer Science Fellowship**.
Jul 09	**IEEE Student Branch Membership Growth Award for Region 8**.
Apr 09	**IEEE Darrel Chong Student Activity Bronze Award**.
Oct 04	**The Ministry of Higher Education Scholarship**
May 02	**The National Mathematics/Physics Olympiad**
	Scored the first in both Mathematics and Physics National Olympiads in the southern region of Jordan and 7th nationwide.

Voluntary Work

Oct 08 - Sep 09	**Mentor**, *IEEE student branch*, University of Jordan, Amman, Jordan.
Oct 07 - Sep 08	**Chairman**
	• Organized the National Technology Parade.
	• Participated in the IEEE Region 8 Student Branch and GOLD Congress.
	• Constructed a new website for the branch (`ju-ieee.com`).
Jan - June 08	**Designer and Administrator**, *Theoretical Physics Lab*, Uni of Jordan.
	• Participated in designing, building and administrating a beowulf linux cluster, in response to the lab's demand for faster computation.
Oct 06 - Jan 08	**Team Leader**, *"We Are All Jordan" Youth Commission*, Jordan.
	• Paricipated in the efforts that established and founded the youth commission.
	• Represented the Jordanian youth as a part of the official delegation during the state visit of His Majesty King AbduAllah II to China, from Oct.27th - Nov.1st 2007.

Skills

Languages	• Arabic: Native	• English: Fluent
Hobbies	• Hiking	• Cooking
Programming	Python, C/C++.	
Scientific Software	Theano, Scikits-learn, NLTK, Numpy, IPython, Pandas.	
Computer Skills	Experienced in building and maintaining networks infrastructure and managing Linux systems.	

References

Steven Skiena	**Léon Bottou**	**Jay Ponte**
Department of Computer Science	Microsoft Research	Google Research
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