

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%, 99.9th 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.
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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 7 th nationwide.

Voluntary Work

OCT 08 - SEP 09	Mentor , <i>IEEE student branch</i> , University of Jordan, Amman, Jordan.
OCT 07 - SEP 08	Chairman <ul style="list-style-type: none">• 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 , <i>Theoretical Physics Lab</i> , Uni of Jordan. <ul style="list-style-type: none">• 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 , " <i>We Are All Jordan</i> " <i>Youth Commission</i> , Jordan. <ul style="list-style-type: none">• Participated 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 Department of Computer Science Stony Brook University Stony Brook, NY 11794 ✉ skiena@cs.stonybrook.edu	Léon Bottou Microsoft Research 641 Avenue of Americas New York, NY 10011 ✉ leonbo@microsoft.com	Jay Ponte Google Research 1600 Amphitheatre Pkwy Mountain View, CA 94043 ✉ jay.ponte@gmail.com
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