

Antonis Anastasopoulos

CONTACT INFORMATION	244 Fitzpatrick Hall Notre Dame, IN 46556	574-993-1434 aanastas@nd.edu
RESEARCH INTERESTS	Natural Language Processing, Machine Translation, Speech Recognition, Low-Resource NLP applications, Neural Networks	
EDUCATION	University of Notre Dame , South Bend, IN Ph.D., Computer Science, <i>Expected</i> : Summer 2018 <ul style="list-style-type: none">• Advisor: David Chiang, Ph.D, Associate Professor National Technical University of Athens , Athens, Greece B.Sc - M.Sc., Electrical and Computer Engineering, May 2014 <ul style="list-style-type: none">• Diploma Thesis: <i>Online learning for adaptive quality estimation of machine translation output</i>• Advisors: Marco Turchi, Ph.D, Matteo Negri, Ph.D and Yanis Maistros, Asst. Professor• Diploma Grade: 8.6/10	
RESEARCH EXPERIENCE	Research Assistant Natural Language Processing Group Department of Computer Science and Engineering University of Notre Dame Supervisor: David Chiang, Ph.D	August 2014 - now
	[upcoming] Visiting Researcher Institute of Language, Cognition, and Computation School of Informatics University of Edinburgh Supervisors: Adam Lopez, Ph.D and Sharon Goldwater, Ph.D	January 2017 - March 2017
	Research Internship Human Language Technologies - Machine Translation Group Fondazione Bruno Kessler, Trento Supervisors: Matteo Negri, Ph.D and Marco Turchi, Ph.D	June 2013 - August 2013
	Research Assistant Natural Language Processing Group National Technical University of Athens Supervisors: Yanis Maistros, Ph.D and Stella Markantonatou, Ph.D	June 2012 - June 2014
TEACHING EXPERIENCE	Teaching Assistant CSE 30151 - Theory of Computing Instructor: Dr. David Chiang Department of Computer Science and Engineering University of Notre Dame	Spring 2015-16
PUBLICATIONS	1. Antonios Anastasopoulos . “A case study on using speech-to-translation alignments for language documentation” to appear in ComputEL-2, the 2nd Workshop on Computational Methods for Endangered Languages, Honolulu, Hawaii, March 6-7, 2017.	

2. **Antonios Anastasopoulos**, David Chiang, and Long Duong. “An Unsupervised Probability Model for Speech-to-Translation Alignment of Low-Resource Languages” In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing* (pp. 1255-1263), Austin, Texas, November 2016.
3. Long Duong, **Antonios Anastasopoulos**, Trevor Cohn, Steven Bird, and David Chiang. “An Attentional Model for Speech Translation Without Transcription” In *Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies* (pp. 949-959), San Diego, California, June 2016.
4. M. Turchi, **A. Anastasopoulos**, J.G.C. de Souza, and M. Negri. “Adaptive Quality Estimation for Machine Translation” In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics* (Vol. 1, pp. 710-720), 2014.
5. J.G. Camargo de Souza, M. Turchi, **A. Anastasopoulos**, and M. Negri. “Online and Multitask learning for Machine Translation Quality Estimation in Real-world scenarios” In *1st Italian Conference on Computational Linguistics*, Pisa, Italy, 2014.
6. S. Markantonatou, **A. Anastasopoulos**, and Y. Maistros. “Explicit Objects and Polysemy”. In *11th International Conference on Greek Linguistics*, Rhodes, Greece 2013.
7. **A. Anastasopoulos**, S. Markantonatou, Y. Maistros. “Using noun and clitic frequencies to study verb transitivity in Modern Greek” In *ALT10 and adjacent international workshop on “The relative frequencies of nouns, pronouns, and verbs in discourse”*, Leipzig, Germany, 2013.

AWARDS

Travel Awards

- Don and Betty Walker Travel Fund for ACL 2014, August 2014
Baltimore, MD

Scholarships

- Undergraduate Studies Scholarship 2008 - 2013
by the John S. Latsis Public Benefit Foundation

SOFTWARE

SPEECH2TRANSLATION

- **SPEECH2TRANSLATION** is a tool for directly aligning speech to its translation text without access to transcriptions. It extends the IBM model 2 (with the fast_align parameterization) combining it with a clustering model based on Dynamic Time Warping as a distance measure.

AQET

- **AQET** is an open-source package for performing Quality Estimation for Machine Translation, in an online fashion, using Online Support Vector Regression and Online Gaussian Processes. It was developed by **Antonios Anastasopoulos**, José C.G. de Souza, Marco Turchi, Matteo Negri and Nicola Bertoldi at Fondazione Bruno Kessler. The current release was made possible through the **MateCat** project.

GRIKO DATABASE

- An online corpus of Griko, a greek dialect spoken in southern Italy. The corpus contains transcriptions of sentences, along with the corresponding sound files, recorded during oral interviews made by our team in four villages in Grecia Salentina, in May 2013 and in August 2013. The project was financially supported by the John S. Latsis Public Benefit Foundation.

CONTRIBUTIONS TO OPEN-SOURCE SOFTWARE

- CNN (now DYNET) : a C++ neural networks library. Worked on using grammar-like statements for more user-friendly development at the early stage of the library's development (Spring 2015).
- PENNE : a python neural networks library. Created by the NLP group at Notre Dame, it tries to make creating neural networks as easy as possible.
- PIALIGN : a C++ library for unsupervised learning to jointly align and extracting phrase table using bayesian inference. Expanded the model to include new tuning parameters, improving performance by up to 5%.

SERVICE	Quality of Life co-chair, Graduate Student Union	August 2016 – Present
	<ul style="list-style-type: none">• Organise events that promote graduate student welfare.• Focus on international and LGBTQ students' integration.	
	International and Graduate Orientation Ambassador	August 2015, August 2016
	<ul style="list-style-type: none">• Participated in the orientation programme for incoming international and graduate students• Participated in a Graduate Student Q&A panel organised by the GSU.	

MISCELLANEOUS

Languages:

- Greek, English, Italian, Swedish, German, Spanish

Computer Programming:

- C, C++, Python, Lua, PHP, UNIX shell scripting, SQL, MySQL, MATLAB, and others

Music:

- Study of Piano: Degree with "Excellent" grade 1994 - June 2012
- Study of Counterpoint: Degree with "Very Good" grade June 2009
- Study of Harmony: Degree with "Excellent" grade June 2006
- Study of History of Music: Degree with "Excellent" grade June 2006