

Mattia Antonino Di Gangi

PhD Student at HLT-MT, FBK. Via Sommarive, 18, Trento, Italy.

Phone: +39 346 379 7016 Email: mattiadigangi@gmail.com

Curriculum Vitae

Date of birth: May 16, 1992

Place of birth: Palermo, Italy

Citizenship: Italian

CONTACT INFORMATION

HLT-MT, FBK
Via Sommarive, 18
I-38123, Trento, Italy

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Page: <https://hlt-mt.fbk.eu/people/profile/digangi>
Scholar: [Mattia Antonino Di Gangi](#)
Github: <https://github.com/mattiadg>
ResearchGate: researchgate.net/profile/Mattia_Di_Gangi

Research internships

Applied Scientist Internship at Amazon AWS

Research topic: Speech-to-text Translation

Supervisor: Marcello Federico

March-July 2019
East Palo Alto, CA, USA

Research internship at FBK

Research topic: Neural Machine Translation

Supervisor: Marcello Federico

Aug. -Sept. 2016
Trento, Italy

Research internship at CNR

Research topic: Automatic Sarcasm Detection

Supervisor: Giovanni Pilato

Feb.-May. 2016
Palermo, Italy

EDUCATION & QUALIFICATIONS

Ph.D. in ICT

ICT International Doctoral School - University of Trento, Italy

HLT-MT Research Unit, FBK, Italy

Topic: Neural Machine Translation for Text and Speech

Advisors: [Marcello Federico](#), [Marco Turchi](#), [Matteo Negri](#)

Nov. 2016 - Apr. 2020 (exp.)

M.Sc. in Computer Science (*summa cum laude*, double degree)

University of Palermo, Italy

Université Paris-est Marne-la-Vallée, France

Study emphases: Machine Learning, Software Development

Thesis: *Machine learning for sarcasm detection*

Advisor: [Giosuè Lo Bosco](#) Co-advisor: [Giovanni Pilato](#)

Oct. 2014 - Oct.. 2016

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B.Sc. in Computer Science (*summa cum laude*) Oct. 2011 - Oct. 2014

University of Palermo, Italy

Thesis: On good design of fuzzy sets

Advisor: [Settimo Termini](#)

High school Diploma (*grade: 100/100*) Sept. 2006 - Jun. 2011

Istituto Tecnico Industriale V. E. III

Specialization: Computer Science

CONFERENCE PRESENTATIONS

ASRU 2020, Singapore, December 2019. ([poster](#))

Interspeech 2019, Graz, Austria, September 2019. ([slides](#))

2019 Machine Translation Summit, Dublin, Ireland, August 2019 ([slides](#))

2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019), Minneapolis, MN, USA, June 2019 ([slides](#)).

15th International Workshop on Spoken Language Translation (IWSLT 2018), Bruges, Belgium, October 2018 ([poster](#)).

21st Annual Conference of the European Association for Machine Translation (EAMT 2018), Alicante, Spain, May 2018 ([slides](#))

14th International Workshop on Spoken Language Translation (IWSLT 2017), Tokyo, Japan, Dec 2017. ([poster](#))

4th Italian Conference on Computational Linguistics (Clic-it 2017), Rome, Italy, Dec 2017. ([slides](#), [slides](#))

2nd Conference on Machine Translation (WMT17), Copenhagen, Denmark, Sept 2017. ([poster](#))

GRANTS AND SCHOLARSHIPS

Student Volunteer Grant July, 29-31, 2019

ACL 2019, Florence, Italy

Travel Grant for NeuralGen2019 June, 6th 2019

@Naacl 2019, Minneapolis, MN, USA

Student grant for Deep Tech Summit 2017 17-18 Oct 2017

Tech Tour DTS, London, UK

PhD Scholarship Nov. 2016 - Oct. 2019

Fondazione Bruno Kessler, Trento, Italy

Summer Internship Grant Aug.-Sept. 2016

Fondazione Bruno Kessler, Trento, Italy

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Student Grant from First European Summer School in Fuzzy Logic 7-11 Sept 2015
EUSFLAT, Como, Italy

Double Degree Grant with Université Paris-est Marne-la-Vallée Sept 2015 - Feb 2016
Champs-sur-Marne, France

SUMMER SCHOOLS

7th Lisbon Machine Learning School 20-27 Jul. 2017
Instituto Superior Técnico (IST), Lisbon, Portugal

First European Summer School in Fuzzy Logic 7-11 Sep. 2015
EUSFLAT, Como, Italy

SELECTED PUBLICATIONS

Di Gangi, M. A., Nguyen, V. N., Negri, M., Turchi, M. "[Instance-Based Model Adaptation For Direct Speech Translation](#)". Proc. of ICASSP 2020 (to appear).

Di Gangi, M. A., Enyedi, R., Brusadin, A., Federico, M. "[Robust Neural Machine Translation for Clean and Noisy Speech Transcripts](#)". Proc. of IWSLT 2019

Di Gangi, M. A., Negri, M., Turchi, M. "[One-to-many multilingual end-to-end speech translation](#)". *ASRU 2019*

Di Gangi, M. A., Negri, M., Turchi, M. "[Adapting Transformer for End-to-end Speech-to-Text Translation](#)". *Proc. of Interspeech 2019*.

Di Gangi, M. A., Cattoni, R., Bentivogli, L., Negri, M., Turchi, M. "[MuST-C: a Multilingual Speech Translation Corpus](#)". *Proc. of the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2019)*.

Di Gangi, M. A., Negri, M., Turchi, M. "[Enhancing Transformer for End-to-end Speech-to-Text Translation](#)". *Proc. of MT Summit 2019*.

Di Gangi, M. A., Federico M. "[Deep Neural Machine Translation with Weakly-Recurrent Units](#)". *Proc. of 21st Annual Conference of the European Association for Machine Translation (EAMT 2018), Alicante, Spain, May 2018*

LANGUAGES

English, Professional proficiency **Italian**, Mother tongue **French**, Intermediate

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Other

I served as a reviewer in the program committees of Clic-It 2019, RANLP 2019, WMT 2018-19, IWSLT 2018-19, MT Summit 2019.

I blog about my research in [Medium](#)

Invited talks

Deep Learning for Text Processing @ University of Bristol 12/11/2019

Neural Machine Translation for Text and Speech @ Italo-German workshop on Autonomous and Algorithmic Cultures: Responsibility in the Knowledge Production and its Applications 06/11/2019

Recent Advances in Direct Speech Translation @ University of Antwerp 16/10/2019

Neural Machine Translation for Text and Speech @ University of Antwerp 15/10/2019

Neural Machine Translation: Un'introduzione @ University of Palermo 05/04/2017

PROJECTS IN NEURAL MACHINE TRANSLATION AND OTHER TOPiCS

- [FBK-fairseq-ST](#): Pytorch tool for direct speech-to-text translation
- [Simple Recurrent NMT](#): various implementations in [Pytorch](#) and [Tensorflow](#)
- Contributor to [Compositional-NMT](#) code
- Code contributor to [OpenNMT-py](#): Neural MT tool written in Python and Pytorch
- Code Contributor to [mxnet_seq2seq](#): Neural MT tool written in Python and MxNet
- Developer of [NN models](#) for the classification of genomic sequences, in Python and Keras

TECHNICAL SKILLS

Daily work: Python Numpy PyTorch LATEX Bash Git

Academic experience: TensorFlow Java C MatLab R SQL

REFERENCES

References are available upon request