

Exposing the limits of Zero-shot Cross-lingual Hate Speech Detection

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This presentation contains examples of offensive language; they do not represent the views of the author.

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- 1) Hate Speech covers a wide range of target types
- 2) Lack of consistency across available corpora
- 3) Research is mainly conducted on English

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The perfect solution





- 1) Hate Speech covers a wide range of target types
- 2) lack of consistency across available corpora
- 3) Research is mainly conducted exclusively only on English

Zero-shot, cross-lingual solutions based on

multilingual contextual embeddings!

But is it?

MAANI





Zero-shot, cross-lingual learning hate speech detection does not transfer to different target types and is strongly limited by the high presence of language- and target-specific taboo interjections in non-hateful contexts

									(lit. slut bitch)	
ma	poi	come	si	fa	а	rompere	la	lavatrice	porca	puttana

how the hell can you break the washing machine

But is it?

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Zero-shot, cross-lingual learning hate speech detection does not transfer to different target types and is strongly limited by the high presence of language- and target-specific taboo interjections in non-hateful contexts

	ma	роі	come	si	fa	а	rompere	la	lavatrice	porca	puttana
										рог	rca puttana
lavatrice porca puttar										rca puttana	
	ma poi come si fa a rompere la lavatrice porca puttana										

Experimental Settings



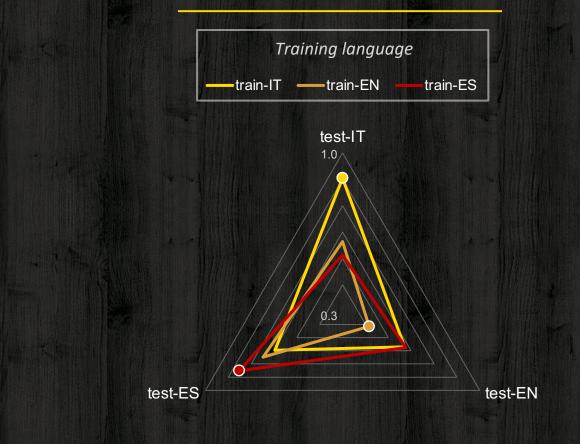
Zero-shot Cross-lingual <u>VS</u> Monolingual

Roccont

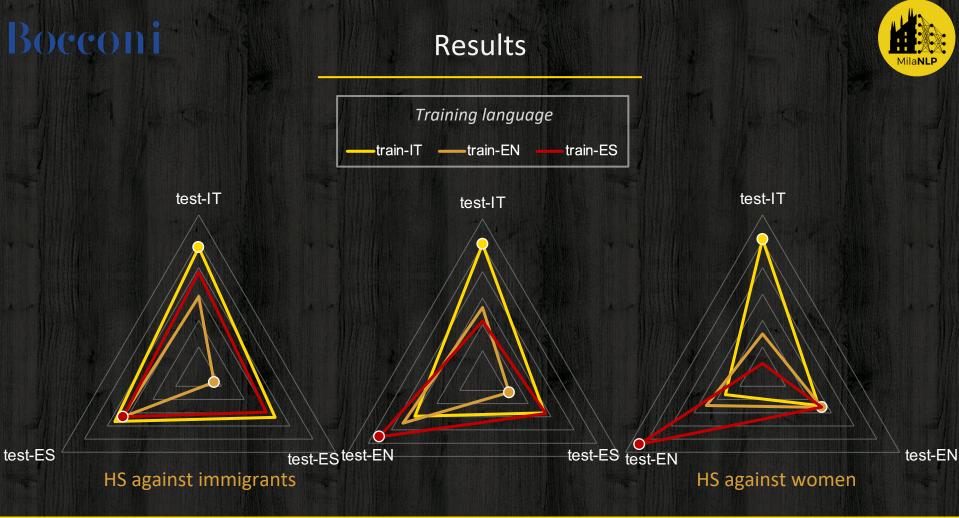
Dataset: benchmark corpora of hate speech against immigrants and women in Italian, English, and Spanish (Bosco et al., 2018; Fersini et al., 2018; Basile et al., 2019)

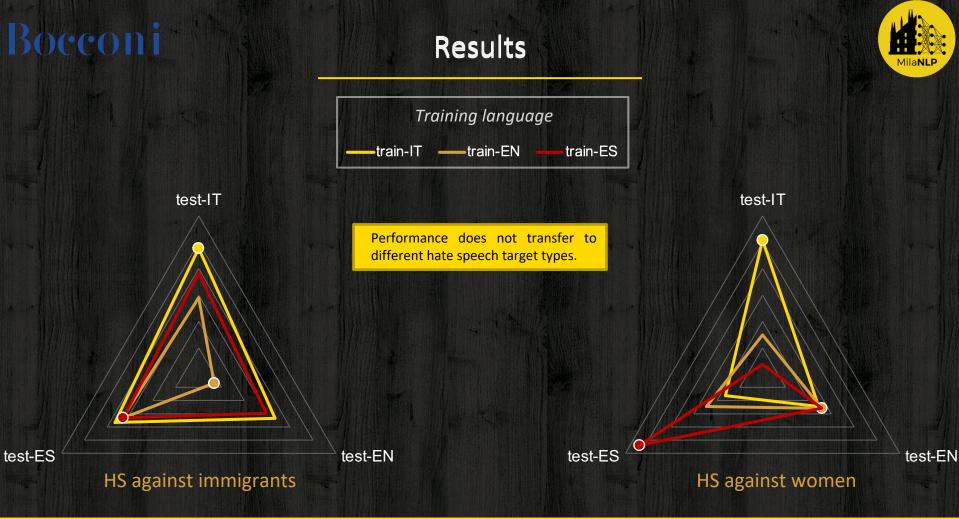
Multilingual contextual embeddings: multilingual BERT (mBERT) (Devlin et al., 2019) and XLM-R (Conneau et al., 2020)

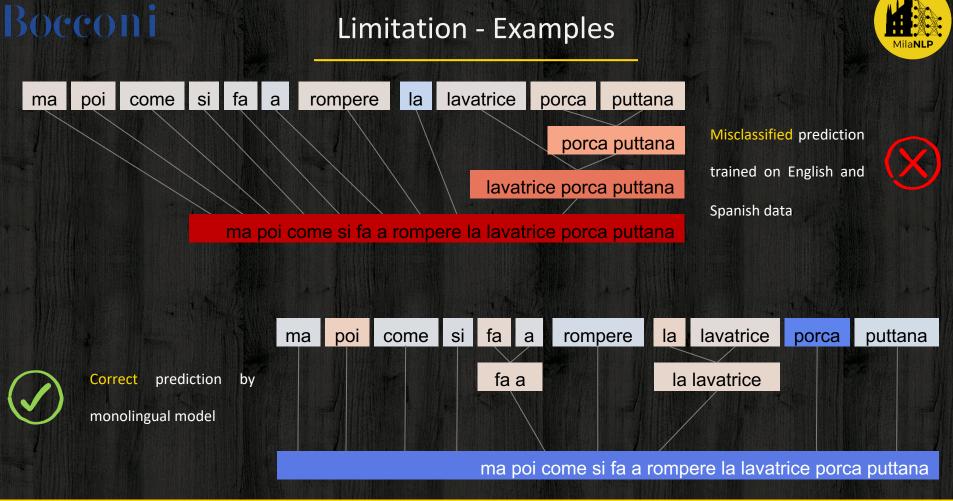
Bocconi Results: HS against immigrants and women



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Take-home points



Zero-shot, cross-lingual transfer learning is not a feasible solution for hate speech detection, which is language- and target-specific

Few-shot, cross-lingual learning provides improvements (+16%)



There is the need of more conscious research





Thank you!

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