Pierre Colombo

PhD student in NLP

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I am a second year PhD student in the SSA group at Telecom Paris and IBM in Paris. My PhD focuses on Deep Learning applied to Natural Language.

Education

2018–2021	**Phd Student**, *Department of Computer Science, Telecom Paris, Paris, France.*
2016–2018	**MSC in Computer Science**, *Department of Computer Science, EPFL, Lausanne, Switzerland.*
2014–2018	**MSC in Applied Mathematics**, *Department of Computer Science, CentraleSupelec, Paris, France.*
2012–2014	**Preparatory School MPSI - MP***, *Lycee Condorcet, Paris, France.*

Experience

2018-Present	Phd Student at **Telecom Paris and IBM, Paris (France)** working on Dialog Generation.
2018	6 Month - Lab Associate at **Disney Research, Los Angeles (USA)** working on Representation Learning.
2017-2018	6 Month - Research Student at **IBM Research, Zurich (Swizerland)** Thesis entitled : Deciphering gene deregulation in cancer development using deep learning.
2017	6 Month - Research Student at **Swisscom Research, Lausanne (Swizerland)** working on chatbots.
2016-2017	12 Month - Teaching Assistant at **EPFL, Lausanne (Swizerland)** helping student to solve mathematics and physic exercises during exercise sessions.
2017	6 Month - Lab Assistant in the **Quantum Physic Department of EPFL, Lausanne (Swizerland)** developing various sensors algorithms (Python/C++).
2017	6 Month - Research Intern at **Procter & Gamble, Frankfurt (Germany)**, development and implementation of a secure application (Android and IOs) to enable a smartphone user to update a toothbrush over-the-air.
2014-2018	20 Months - Software Consultant at **Supelec & EPFL Junior Enterprise**, debugging web applications developed with Symphony 2 for the French Army, and developing several websites (`http://www.volumina-medical.ch/`).

2014 2 Months - Intern at **Safran Paris (France)**.

▬▬▬ Publications

1. Pierre Colombo(*), Emile Chapuis(*), Matteo Manica, Emmanuel Vignon, Giovanna Varni, and Chloé Clavel. Guiding attention in sequence-to-sequence models for dialogue act prediction. *AAAI 2020*, abs/1908.11216, 2020
2. Pierre Colombo(*), Wojciech Witon(*), Ashutosh Modi, James Kennedy, and Mubbasir Kapadia. Affect-driven dialog generation. *NAACL 2019*, abs/1904.02793, 2019
3. Alexandre Garcia(*), Pierre Colombo(*), Slim Essid, Florence d'Alché-Buc, and Chloé Clavel. From the token to the review: A hierarchical multimodal approach to opinion mining. *EMNLP 2020*, abs/1908.11216, 2019
4. Wojciech Witon(*), Pierre Colombo(*), Ashutosh Modi, and Mubbasir Kapadia. Disney at IEST 2018: Predicting emotions using an ensemble. In Alexandra Balahur, Saif M. Mohammad, Véronique Hoste, and Roman Klinger, editors, *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis, WASSA@EMNLP 2018, Brussels, Belgium, October 31, 2018*, pages 248–253. Association for Computational Linguistics, 2018
5. H. Jalalzai(*), P. Colombo(*), C. Clavel, E. Gaussier, G. Varni, E. Vignon, and A. Sabourin. Heavy-tailed representations, text polarity classification & data augmentation. *NeurIPS 2020*, abs/1904.02793, 2020
6. Emile Chapuis(*), Pierre Colombo(*), Matteo Manica, Matthieu Labeau, and Chloé Clavel. Hierarchical pre-training for sequence labelling in spoken dialog. *Finding of EMNLP 2020*, abs/1904.02793, 2019
7. Tanvi Dinkar(*), Pierre Colombo(*), Matthieu Labeau, and Chloé Clavel. The importance of fillers for text representations of speech transcripts. *EMNLP 2020*, abs/1904.02793, 2019

▬▬▬ Preprint

1. Pierre Colombo, Pablo Piantanida, and Chloé Clavel. Learning to disentangle textual representations and attributes via mutual information. 2020
2. Pierre Colombo, Ccjack, Giovanna Varni, and Chloé Clavel. Beam search with bidirectional strategies. 2020

▬▬▬ Patents

1. Affect Driven Dialog Generation, Ashutosh Modi, Mubbasir Kapadia, Douglas A. Fidaleo, James R. Kennedy, Wojciech Witon and Pierre Colombo, US Patent Pending, A framework for Affective Conversational System

▬▬▬ Languages

English	Business fluent
French	Native speaker
German	Upper intermediate

▬▬▬ Miscellaneous

Sport	Handball, Athletics: marathons, ultra-trails
Music	Studied music theory and trumpet for 12 years at conservatoire
Volunteer Work	In charge of a Student Group which helps youths living in disadvantaged areas.