Paolo Tomeo

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Research Experience

2014/01–Present **Research Assistant**, *Information Systems Laboratory, Polytechnic University of Bari*, Italy.
- Design and implementation of methods for personalized diversification of recommendations
- Design and implementation of hybrid recommendation algorithms based on heterogeneous information networks including Semantic Web data
- Application of supervised learning methods for healthcare data analysis, using Scikit-learn
- Supervision and participation in the development of a Java framework for implementing semantic relatedness and similarity metrics called SimLib [GitHub Link]

Supervisor: Prof. Tommaso Di Noia

2016/01–2016/04 **Visiting Researcher**, *Information Retrieval Group, Autonomous University of Madrid*, Spain.
Research on cold-start user scenario applying hybrid recommender systems with cross-domain information and item metadata extracted from DBpedia
Supervisor: Prof. Iván Cantador

2012/01–2012/03 **Project Work**, *SWAP Research Group, University of Bari*, Italy.
Research on new reasoning strategies applied on spreading activation network for solving a language game
Course: Intelligent information access and natural language processing
Supervisor: Prof. Giovanni Semeraro

Education

2014/01–2017/3 (expected) **PhD candidate in Computer Science**, *Polytechnic University of Bari*, Italy.
Research Areas: Recommender Systems, Machine Learning, Semantic Web
Supervisor: Prof. Tommaso Di Noia

2010/10–2013/10 **M.S. in Computer Science (110/110 cum laude)**, *University of Bari*, Italy.
Thesis in Recommender Systems
Supervisors: Prof. Giovanni Semeraro, Prof. Marco de Gemmis, Prof. Pasquale Lops

2006/10–2010/03 **B.S. in Computer Science (110/110 cum laude)**, *University of Bari*, Italy.
Thesis in Software Engineering
Supervisors: Prof. Maria Teresa Baldassarre , Prof. Pasquale Ardimento

School and training

2017 **Functional Programming Principles in Scala by École Polytechnique Fédérale de Lausanne on Coursera**, *Certification Licence V7Y3GFJ2B3JU*.

2016 **Machine Learning by Stanford University on Coursera**, *Certification Licence HLA853AB2ZFC*.

2016 **Introduction to Software Product Management by University of Alberta on Coursera**, *Certification Licence A3B3QSCVC9CH*.

2015 **10th European Summer School in Information Retrieval**, Thessaloniki, Greece.

2014 **10th Reasoning Web Summer School**, Athens, Greece.

2014 **6th European Summer School in Logic, Language and Information**, Tübingen, Germany.

Teaching Experience

2014, 2015, 2016 **Teaching Assistant**, *Logic and Artificial Intelligence*, Polytechnic University of Bari.

2014, 2015 **Teaching Assistant**, *Information Systems Fundamentals*, Polytechnic University of Bari.

6/2014 – 7/2014 **Lecturer**, *PHP Programming*, Center for training and professional development "Don Tonino Bello", Andria, Italy.

Awards

2016 Academic Pass at Spark Summit EU 2016, Brussels, Belgium

2014 – 2016 PhD Fellowship in Computer Science provided by Telecom Italia spa

Selected Presentations

2016 Paper Presentation at the International Conference on Recommender Systems (RecSys), MIT, Boston, USA

2015 Paper Presentation at the International Semantic Web Conference (ISWC), Bethlehem, USA

Languages

Italian Native proficiency

English Professional working proficiency

Technical skills

Programming Languages	Fluent in Java 8 Experience with Scala, Python, R, Octave, PHP, C++, Bash, Prolog
Frameworks & Libraries	Apache Mahout, GraphLab, TensorFlow, Scikit-learn, RankSys
Development	Intellij Idea, Eclipse, Jupiter, Git, SVN, Maven
Database	MySQL, PostgreSQL. Knowledge of MongoDB
Operating Systems	Linux, Windows

Selected Publications

1. T. Di Noia, J. Rosati, **P. Tomeo**, E. Di Sciascio. Adaptive Multi-attribute Diversity for Recommender Systems. Elsevier Information Sciences, 2017.
2. I. Fernández-Tobías, **P. Tomeo**, I. Cantador, T. Di Noia, E. Di Sciascio. Accuracy and Diversity in Cross-domain Recommendations for Cold-start Users with Positive-only Feedback. In 10th ACM Conference on Recommender Systems (RecSys 2016), MIT, Boston, MA, USA, 2016.
3. **P. Tomeo**, I. Fernández-Tobías, T. Di Noia, I. Cantador. Exploiting Linked Open Data in Cold-start Recommendations with Positive-only Feedback. In 4th Spanish Conference in Information Retrieval (CERI 2016), Granada, Spain, 2016.
4. T. Di Noia, V. C. Ostuni, **P. Tomeo**, E. Di Sciascio. SPrank: Semantic Path-based Ranking for Top-N Recommendations using Linked Open Data. In ACM Transactions On Intelligent Systems And Technology (TIST 2016).
5. **P. Tomeo**, T. Di Noia, M. de Gemmis, P. Lops, G. Semeraro and E. Di Sciascio. Exploiting Regression Trees as User Models for Intent-Aware Multi-attribute Diversity. In 2nd Workshop on New Trends in Content-Based Recommender Systems (CBRecSys 2015). 9th ACM Conference on Recommender Systems (RecSys 2015), Vienna, Austria, 2015.
6. P. T. Nguyen, **P. Tomeo**, T. Di Noia, and E. Di Sciascio. Content-based Recommendations via DBpedia and Freebase: a Case Study in the Music Domain. In 14th International Semantic Web Conference (ISWC 2015), Bethlehem, PA, USA, 2015.
7. P. T. Nguyen, **P. Tomeo**, T. Di Noia, and E. Di Sciascio. An Evaluation of SimRank and Personalized PageRank to Build a Recommender System for the Web of Data. In 7th International Workshop on Web Intelligence & Communities (WIC 2015). 24th International World Wide Web Conference (WWW 2015), Florence, Italy, 2015.
8. T. Di Noia, V. C. Ostuni, J. Rosati, **P. Tomeo**, E. Di Sciascio. An Analysis of Users' Propensity toward Diversity in Recommendations. In 8th ACM Conference on Recommender Systems (RecSys 2014), Foster City, Silicon Valley, USA, 2014.

Complete list of publications on Google Scholar.