

# CURRICULUM VITAE OF FABIO CRESTANI

February, 2020

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## Personal Information

Fabio Antonio Crestani, born in Bassano del Grappa, Italy. Italian and British citizen (dual nationality) with Swiss C Residence Permit.

Google Scholar ID: <https://scholar.google.com/citations?user=EoGBsiMAAAAJ&hl=en>

OrdID: <https://orcid.org/0000-0001-8672-0700>

## Education

**PhD in Computing Science:** University of Glasgow, UK, July 1998.

**MSc in Computing Science:** University of Glasgow, UK, July 1992.

**Laurea in Scienze Statistiche ed Economiche:** University of Padua, Italy, March 1987.

## Employment History

**Since January 2007:** Full Professor, Faculty of Informatics, University of Lugano (Università della Svizzera Italiana, USI), Lugano, Switzerland.

**July 2000 - December 2009:** Reader (2000-02), Full Professor (2002-07), Part-time Research Professor (2007-09), Department of Computer and Information Sciences, University of Strathclyde, Glasgow, UK.

**January 2000 - June 2000:** ERCIM Research Fellow, Rutherford Appleton Laboratory, Central Laboratory of the Research Council, Chilton, UK.

**June 1999 - December 1999:** International Research Fellow, International Computer Science Institute (ICSI), Berkeley, USA.

**April 1997 - May 1999:** “Marie Curie” Senior Research Fellow, Department of Computing Science, University of Glasgow, UK.

**September 1992 - March 1997:** Assistant Professor with tenure (italian: Ricercatore Confermato), Department of Electronics and Informatics, University of Padova, Italy.

## Institutional Responsibilities

At USI: Director of the Doctoral Program during 2008-10, Director of the Master in Informatics 2011-13, Director of the Master in Management and Informatics (2014-16). Currently Director of the Information Retrieval Research Group.

Research Council Committees: Advisor for the Hong Kong Research Grant Council (China), the Singapore Research Grant Council (Singapore), the Irish Science Foundation (Ireland), the National Fund for Scientific & Technological Development (Chile) and others. Reviewer for the European Commission, Directorates of Information Society (IST) and Training and Mobility of Researchers (TMR).

## Recent Research Projects

The following list includes awarded projects, with funding body and project title, for which I acted either as Principal Investigator or Co-Principal Investigator in the last 5 years.

**Time-Aware Techniques for Online Mental State Assessment, 2019-20:** Hasler Foundation Small Project.

**GSKN, 2017-20:** NRP 75 "Big Data" Project on: "The Global Structure of Knowledge Networks: Data, Models and Empirical Results".

**RelMobIR, 2015-19:** SNSF Project on "Relevance Criteria Combination for Mobile Information Retrieval".

**ERPI, 2015:** SNSF Visiting Scholarship on "Early Risk Prediction on the Internet: an evaluation corpus". Supporting Prof. David Losasa from University of Santiago de Compostela (Spain) for 3 months

**OpiTrack, 2014-18:** SNSF Project on "Tracking Opinion Change Over Time".

**Recall, 2013-16:** European Commission FET Project on "Enhancing Human Memory".

**KEYSTONE, 2013-17:** European Commission COST Action IC1302 on "Semantic KEYword-based Search on sTructured data sOurcEs".

## Teaching and Student Supervision

I have taught several courses at BSc and MSc levels at the USI, University of Strathclyde and the University of Padova, since 1992. I have also taught several PhD courses at various summer schools.

I have successfully supervised 5 PhD students and am currently supervising 4 and co-supervising 3 more. I have been external PhD examiner more than 30 times in the last 5 years in several countries in Europe and Asia.

## Organisation of Conferences and Other Professional Activities

**Organising Committees:** in the last 5 years (since 2013), I have been a member of the following organising committees: *2017:* PC Co-Chair of TPDFL. *2016:* PC Co-Chair of ECIR; Programme Committee Co-Chair of CIKM. *2014:* PC Co-Chair of IIR.

**Editorial Services to Scholarly Publications:** Editor-in-Chief of Information Processing and Management (2008-15). Associated Editor of the ACM Transactions on Intelligent Systems and Technology (2010-12). Member of the editorial board of the Journal of Information Science (2005-10), Information Systems (since 2006), Information Sciences (since 2007) and the Journal of the American Society of Information Science and Technology (2002-08). Guest editor for several journals.

## Awards and Fellowships

2015: Visting Professor, Université Pierre Mendés-France, Grenoble, France; 2014: Visiting Scholar, Yahoo! Inc., Sunnyvale, USA, and Barcelona, Spain; 2011-12: Cátedra de Excelencia, Universidad Carlos III de Madrid, Madrid, Spain; 2005: Visiting Scholar, Xerox Parc, Palo Alto, USA; 2003: Visiting Professor Fellowship, CNRS (Centre National de la Recherche Scientifique), Grenoble, France; 2000: ERCIM (European Research Consortium for Mathematics and Informatics) Fellowship; 1999: Research Fellowship, International Computer Science Institute, Berkeley, CA, USA; 1997: Marie Curie Senior Research Fellowship, Training and Mobility of Researchers Programme, V Framework, European Commission; 1995: Visiting Fellowship, University of California Berkeley, USA; 1990: Junior Research Fellowship, C.N.R. (Italian National Research Council).

# RESEARCH OUTPUT OF FABIO CRESTANI

February, 2020

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The list includes my research output of the last 5 years (since January 2015). Given the space limitations, the list does not include oral contribution to international conferences, general contributions to science, articles in arXiv or artefact. All publications were peer reviewed.

A complete list of my publications can be found at: <http://dblp.uni-trier.de/pers/hd/c/Crestani:Fabio.html>.

Articles relevant to the research project are highlighted.

## Publications in International Peer-Reviewed Scientific Journals

1. I. Mele, S.A. Bahrainian, and F. Crestani. Event mining and timeliness analysis from heterogeneous news streams. *Information Processing & Management*, 56(3): 969-993, 2019.
2. A. Giachanou, J. Gonzalo, and F. Crestani. Propagating sentiment signals for estimating reputation polarity. *Information Processing & Management*, 56(6):1-25, 2019.
3. S. Wu, C. Huang, L. Li, and F. Crestani. Fusion-based methods for result diversification in web search. *Information Fusion*, 45:16-26, 2019.
4. M. Aliannejadi, I. Mele, and F. Crestani. Personalized Context-Aware Point of Interest Recommendation. *ACM Transactions on Information Systems*, 36(4):1-28, 2018.
5. K.D. Varathan, A. Giachanou, and F. Crestani. Comparative Opinion Mining: a Review. *Journal of the American Society for Information Science and Technology*, 68(4): 811-829, 2017
6. A. Giachanou and F. Crestani. Like It or Not: A Survey of Twitter Sentiment Analysis Methods. *ACM Computing Surveys*, 49(2):28:1-28:41, 2016
7. F. Crestani. A farewell message from the editor-in-chief. *Information Processing & Management*, 52(2): 173, 2016.
8. F. Crestani and S. Wu. Automatic A Geometric Framework for Data Fusion in Information Retrieval. *Information Systems*, 50: 20-35, 2015.

## Peer-Reviewed Books

1. F. Crestani, S. Mizzaro, and I. Scagnetto: *Mobile Information Retrieval*. Springer Briefs in Computer Science, Springer 2017, ISBN 978-3-319-60776-4.

## Contributions to Books

1. M. Harvey and F. Crestani. 21st Century Search and Recommendation: Exploiting Personalisation and Social Media. In G. Paltoglou, F. Loizides, and P. Hansen, editors. *Professional Search in the Modern World 2014*, pages 70-95, Springer-Verlag, Heidelberg, Germany, 2014.

## Publications in Peer-Reviewed Conference Proceedings (all with oral presentation)

1. E. Rissola, S.A. Bahrainian, and F. Crestani. Personality recognition in conversations using capsule neural networks. In *2019 IEEE/WIC/ACM International Conference on Web Intelligence, WI 2019*, Thessaloniki, Greece, October 14-17, 2019, pages 180-187, 2019.
2. M. Aliannejadi, M. Harvey, L. Costa, M. Pointon, and F. Crestani. Understanding Mobile Search Task Relevance and User Behaviour in Context. In *Proceedings of CHIIR 2019, the Conference on Human Information Interaction and Retrieval*: 143-151, Glasgow, Scotland, March 2019.

3. S.A. Bahrainian, F. Zarrinkalam, I. Mele, and F. Crestani. Predicting the Topic of Your Next Query for Just-In-Time IR. In *Proceedings of ECIR 2019, The European Conference on Information Retrieval*, pages: 261-275, Cologne, Germany, April 2019.
4. E. Rissola, S.A. Bahrainian, and F. Crestani. Anticipating Depression Based on Online Social Media Behaviour. In *Proceedings of FQAS 2019, The Flexible Query Answering Systems Conference*, pages: 278-290, Amantea, Italy, July 2019.
5. M. Aliannejadi, H. Zamani, F. Crestani, and W.B. Croft. Asking Clarifying Questions in Open-Domain Information-Seeking Conversations. In *Proceedings of ACM SIGIR 2019, the International ACM Conference on Research and Development in Information Retrieval*, pages: 475-484, Paris, France, July 2019.
6. D. Rafailidis, and F. Crestani. Friend Recommendation in Location-Based Social Networks via Deep Pairwise Learning. In *Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, (ASONAM)*, pages: 421-428, Barcelona, Spain, August 2018.
7. S.A. Bahrainian, and F. Crestani. Augmentation of Human Memory: Anticipating Topics that Continue in the Next Meeting. In *Proceedings of CHIIR 2018, the Conference on Human Information Interaction and Retrieval*, pages: 150-159, New Brunswick, NJ, USA, March 2018.
8. M. Aliannejadi, H. Zamani, F. Crestani, and W.B. Croft. In Situ and Context-Aware Target Apps Selection for Unified Mobile Search. In *Proceedings of CIKM 2018, the 27th International Conference on Information and Knowledge Management*, pages: 1383-1392, Torino, Italy, October 2019.
9. S.A. Bahrainian, I. Mele, and F. Crestani. Predicting Topics in Scholarly Papers. In *Proceedings of ECIR 2018, The European Conference on Information Retrieval*, pages: 16-28, Grenoble, France, March 2018.
10. M. Aliannejadi, D. Rafailidis, and F. Crestani. A Collaborative Ranking Model with Multiple Location-based Similarities for Venue Suggestion. In *Proceedings of ICTIR 2018, the ACM SIGIR International Conference on Theory of Information Retrieval*, pages: 19-26, Tianjin, China, September 2018.
11. M. Aliannejadi, H. Zamani, F. Crestani, and W.B. Croft. Target Apps Selection: Towards a Unified Search Framework for Mobile Devices. In *Proceedings of SIGIR 2018, the International ACM Conference on Research and Development in Information Retrieval*: pages 215-224, Ann Arbor, MI, USA, July 2018.
12. I. Mele, S.A. Bahrainian, and F. Crestani. Linking News across Multiple Streams for Timeliness Analysis. In *Proceedings of CIKM 2017, the 26th International Conference on Information and Knowledge Management*, pages 767-776, Singapore, November 2017.
13. S.A. Bahrainian, I. Mele, and F. Crestani. Modeling discrete dynamic topics. In *Proceedings of ACM SAC 2017, the ACM Symposium on Applied Computing*, pages 858-865, Marrakech, Morocco, April 2017.
14. D. Rafailidis, and F. Crestani. Learning to Rank with Trust and Distrust in Recommender Systems. In *Proceedings of RecSys 2017, the ACM Conference on Recommender Systems*, pages 5-13, Como, Italy, August 2017.
15. D. Rafailidis, and F. Crestani. A Regularization Method with Inference of Trust and Distrust in Recommender Systems. In *Proceedings of ECML PKDD 2017*, pages 253-268, Skopje, Macedonia, September 2017.

16. I. Mele, and F. Crestani. Event Detection for Heterogeneous News Streams. In *Proceedings of NLDB 2017, the 22nd International Conference on Applications of Natural Language to Information Systems*, pages 110-123, Liege, Belgium, June 2017.
17. S.A. Bahrainian, and F. Crestani. Towards the Next Generation of Personal Assistants: Systems that Know When You Forget. In *Proceedings of ICTIR 2017, the ACM SIGIR International Conference on Theory of Information Retrieval*, pages 169-176, Amsterdam, The Netherlands, October 2017.
18. D. Rafailidis, and F. Crestani. Recommendation with Social Relationships via Deep Learning. In *Proceedings of ICTIR 2017, the ACM SIGIR International Conference on Theory of Information Retrieval*, pages 151-158, Amsterdam, The Netherlands, October 2017.
19. S.A. Bahrainian, and F. Crestani. Tracking Smartphone App Usage for Time-Aware Recommendation. In *Proceedings of ICADL 2017, the 20th International Conference on Asian Digital Libraries*, pages 161-172, Bangkok, Thailand, November 2017.
20. M. Aliannejadi, D. Rafailidis, and F. Crestani. Personalized Keyword Boosting for Venue Suggestion Based on Multiple LBSNs. In *Proceedings of ECIR 2017, the 39th European Conference on IR Research*, pages 291-303, Aberdeen, UK, April 2017.
21. A. Giachanou, J. Gonzalo, I. Mele, and F. Crestani. Sentiment Propagation for Predicting Reputation Polarity. In *Proceedings of ECIR 2017, the 39th European Conference on IR Research*, pages 226-238, Aberdeen, UK, April 2017.
22. D.E. Losada, F. Crestani, and J. Parapar. eRISK 2017: CLEF Lab on Early Risk Prediction on the Internet: Experimental Foundations. In *Proceedings of CLEF 2017, the 8th International Conference of the CLEF Association*, pages 346-360, Dublin, Ireland, September 2017.
23. M. Aliannejadi, I. Mele, and F. Crestani. User Model Enrichment for Venue Recommendation. In *Proceedings of AIRS 2016, the Asian Information Retrieval Symposium*, pages 212-223, Beijing, China, November 2016.
24. D Rafailidis, and F. Crestani. Network completion via joint node clustering and similarity learning. In *Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, (ASONAM)*, pages 63-68, San Francisco, USA, August 2016.
25. A. Giachanou, I. Mele, and F. Crestani. Explaining Sentiment Spikes in Twitter. In *Proceedings of CIKM 2016, the 25nd International Conference on Information and Knowledge Management*, 2263-2268, Indianapolis, USA, October 2016.
26. D. Losada, and F. Crestani. A Test Collection for Research on Depression and Language Use. In *Proceedings of CLEF 2016*, pages 28-39, Evora, Portugal, September 2016.
27. A. Giachanou, M. Harvey, and F. Crestani: Topic-Specific Stylistic Variations for Opinion Retrieval on Twitter. *Proceedings of ECIR 2016, European Conference in Information Retrieval*, pages 466-478, Padova, Italy, March 2016.
28. A. Bexheti, E. Niforatos, A. Bahrainian, M. Langheinrich and F. Crestani. Measuring the effect of cued recall on work meetings. *UbiComp Adjunct 2016*: 1020-1026.
29. K. Varathan, A. Giachanou, and F. Crestani. Temporal Analysis of Comparative Opinion Mining. In *Proceedings of ICADL 2016, the 19th International Conference on Asian Digital Libraries*, pages 311-322, Tsukuba, Japan, December 2016.
30. D Rafailidis, and F. Crestani. Top-N Recommendation via Joint Cross-Domain User Clustering and Similarity Learning. In *Proceedings of ECML/PKDD*, pages 426-441, Riva del Garda, Italy, September 2016.

31. A. Giachanou and F. Crestani. Opinion retrieval in Twitter: is proximity effective? In *Proceedings of ACM SAC 2006, ACM Symposium on Applied Computing*, pages 1146-1151, Pisa, Italy, March 2016.
32. D. Rafailidis and F. Crestani. Joint Collaborative Ranking with Social Relationships in Top-N Recommendation. In *Proceedings of CIKM 2016, the 25nd International Conference on Information and Knowledge Management*, pages 1393-1402, Indianapolis, USA, October 2016. Poster session.
33. M. Harvey and F. Crestani. Long Time, No Tweets! Time-aware Personalised Hashtag Suggestion. In *Proceedings of ECIR 2015, European Conference in Information Retrieval*, pages 581-592, Vienna, Austria, April 2015.