Kevin Roitero

Current Position: Ph.D. Candidate at University of Udine (end date: 1 November 2019).
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EXPERIENCE

- **Spotify** London, GBR
  Research Intern *Sept 2018 – Dec 2018*
  Tasks: Statistical modeling, machine and transfer learning techniques to model internal processes.
  Manager: Mounia Lalmas-Roelleke (Director, Tech Research).

EDUCATION

- **Ph.D. Candidate** Udine, ITA.
  Department of Mathematics, computer Science, and Physics. *Nov 2016 – Present*
  Focus: Information retrieval, crowd-sourcing, machine and transfer learning, data mining and analysis, and statistical modeling. Scholarship provided by University of Udine.

- **School of Information Technology and Electrical Engineering, UQ.** Brisbane, AUS.
  Short visiting period (as PhD Student) to visit Gianluca Demartini. *23 July 2018 – 30 July 2018*

- **ISAR Group, RMIT University.** Melbourne, AUS.
  Visiting period (as PhD Student). Grant by the ISAR Group. *Mar 2018 – July 2018*

- **Information School, University of Sheffield.** Sheffield, GBR.
  Visiting period (as PhD Student). Grant by ERASMUS+ Traineeship. *Apr 2017 – June 2017*

- **University of Udine & Alpen-Adria-Universität** Udine, ITA & Klagenfurt, AUT
  Master Joint Degree in International Computer Science. *Sept 2014 – July 2016*
  Grade: cum laude (110 cum laude/110).

- **Alpen-Adria-Universität** Klagenfurt, AUT
  Visiting period (as Master Student). Grant by University of Udine and ERASMUS. *Sept 2014 – Feb 2016*

- **University of Udine** Udine, ITA
  Bachelor Degree in Computer Science. *Sept 2014 – Oct 2016*
  Grade: 102/110.

PUBLICATIONS

- **Personal Website (includes accepted publications):** https://kevinroitero.com/#publications
- **Google Scholar:** https://scholar.google.com/citations?hl=en&user=1xd52jMAAAAJ
- **DBLP:** https://dblp.uni-trier.de/pers/hd/r/Roitero:Kevin

  Year: 2019
- **Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Models.**
  Kevin Roitero, Michael Soprano, and Stefano Mizzaro.
  Proceedings of the 10th Italian Information Retrieval Workshop, Padua, Italy, September 16-18, 2019.
- **Towards Stochastic Simulations of Relevance Profiles.**
  Kevin Roitero, Andrea Brunello, Julin Urbano and Stefano Mizzaro.
  Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM2019).
  Beijing, China. November 3-7, 2019. Conference Rank: A
- **On Transforming Relevance Scales.**
  Lei Han, Kevin Roitero, Eddy Maddalena, Stefano Mizzaro and Gianluca Demartini.
  Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM2019).
  Beijing, China. November 3-7, 2019. Conference Rank: A
- **HITS Hits Readersourcing: Validating Peer Review Alternatives Using Network Analysis.**
  Michael Soprano, Kevin Roitero, and Stefano Mizzaro.
  Proceedings of the 4th Joint Workshop on Bibliometric-enhanced Information Retrieval and Natural Language
  Processing for Digital Libraries (BIRNDL 2019).
- **Fewer Topics? A Million Topics? Both?! On Topics Subsets in Test Collections.**
  Kevin Roitero, J. Shane Culpepper, Mark Sanderson, Falk Scholer, and Stefano Mizzaro
  Information Retrieval Journal (IRJ).

- **On Topic Difficulty in IR Evaluation: The Effect of Corpora, Systems, and System Components.**
  Shane Culpepper, Oren Kurland, Stefano Mizzaro, <u>Kevin Roitero</u> and Fabio Zampieri.
  Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval. Paris, France. July 21-25, 2019. Conference Rank: A*
- **All Those Wasted Hours: On Task Abandonment in Crowdsourcing.**
  Lei Han, <u>Kevin Roitero</u>, Ujwal Gadiraju, Cristina Sarasua, Alessandro Checco, Eddy Maddalena and Gianluca Demartini.
  ACM International Conference on Web Search and Data Mining, WSDM 2019, Melbourne, Australia. Conference Rank: A*

Year: 2018
- **How Many Truth Levels? Six? One Hundred? Even more? Validating Truthfulness of Statements via Crowdsourcing.**
  <u>Kevin Roitero</u>, Damiano Spina, Gianluca Demartini, and Stefano Mizzaro.
  RDSM 2018 : Workshop on Rumours and Deception in Social Media.
- **Reproduce. Generalize. Extend. On Information Retrieval Evaluation without Relevance Judgments.**
  <u>Kevin Roitero</u>, Marco Passon, Giuseppe Serra, and Stefano Mizzaro.
  ACM Journal of Data and Information Quality (JDIQ).
- **Reproduce and Improve: An Evolutionary Approach to Select a Few Good Topics for Information Retrieval Evaluation.**
  <u>Kevin Roitero</u>, Michael Soprano, Andrea Brunello, and Stefano Mizzaro.
  ACM Journal of Data and Information Quality (JDIQ).
- **On Fine-Grained Relevance Scales.**
  <u>Kevin Roitero</u>, Eddy Maddalena, Gianluca Demartini and Stefano Mizzaro.
  Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: A*
- **Query Performance Prediction and Effectiveness Evaluation Without Relevance Judgments: Two Sides of the Same Coin.**
  Stefano Mizzaro, Josiane Mothe, <u>Kevin Roitero</u>, and Md Zia Ullah.
  Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: A*
- **IRevalOO: An Object Oriented Framework for Retrieval Evaluation.**
  <u>Kevin Roitero</u>, Eddy Maddalena, Ponte Yannick and Stefano Mizzaro.
  Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: A*
- **Effectiveness Evaluation with a Subset of Topics: A Practical Approach.**
  <u>Kevin Roitero</u>, Michael Soprano and Stefano Mizzaro.
  Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: A*
- **CHeap and Engineered Evaluation of Retrieval Systems.**
  <u>Kevin Roitero</u>.
  Doctoral Consortium of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: A*

Year: 2017
- **Let's Agree to Disagree: Fixing Agreement Measures for Crowdsourcing.**
  Alessandro Checco, <u>Kevin Roitero</u>, Eddy Maddalena, Gianluca Demartini and Stefano Mizzaro.
  Proceedings of the The fifth AAAI Conference on Human Computation and Crowdsourcing, AAAI HCOMP2017. Quebec City, Canada. October 24-26 2017.
- **Considering Assessor Agreement in IR Evaluation.**
  Eddy Maddalena, <u>Kevin Roitero</u>, Gianluca Demartini and Stefano Mizzaro.
  Proceedings of the 3rd ACM International Conference on the Theory of Information Retrieval, ICTIR2017. Amsterdam, Netherlands. October 1-4 2017.
- **Economic Evaluation of Recommender Systems: A Proposal.**
  <u>Kevin Roitero</u>, Stefano Mizzaro, and Giuseppe Serra.
  Proceedings of the 8th Italian Information Retrieval Workshop, Switzerland. June 05-07, 2017.
- **Do Easy Topics Predict Effectiveness Better Than Difficult Topics?**
  <u>Kevin Roitero</u>, Eddy Maddalena, and Stefano Mizzaro.

Proceedings of the 39th European Conference on IR Research, ECIR 2017, Aberdeen, UK, April 8-13, 2017.
Conference Rank: A

Year: 2016

- **Improving the Efficiency of Retrieval Effectiveness Evaluation: Finding a Few Good Topics with Clustering?**
  Kevin Roitero and *Stefano Mizzaro*.
  Proceedings of the 7th Italian Information Retrieval Workshop, Venezia, Italy, May 30-31, 2016.

TALKS

- **25 July 2019**. HITS Hits Readersourcing: Validating Peer Review Alternatives Using Network Analysis. *ACM SIGIR Conference on Research and Development in Information Retrieval. Paris, France.*
- **7 June 2019**. Economical Evaluation of Systems: Users as a Signal. *Spotify NYC.*
- **15 March 2019**. Lets Agree to Disagree: Fixing Agreement Measures for Crowdsourcing. *European Network for Combining Language Learning with Crowdsourcing Techniques, enetCollect. Lisbon.*
- **14 November 2018**. Internal Research Talk. *Spotify. London, Great Britain.*
- **11 July 2018**. On fine Grained Relevance Scales. *ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A.*
- **17 May 2018**. iPython notebooks for data analysis and plotting. *RMIT University, Melbourne, Australia.*
- **10 May 2018**. Crowdsourcing relevance judgments and considering agreement in IR evaluation (with a new agreement measure) *RMIT University, Melbourne, Australia.*
- **6 June 2017**. Economic Evaluation of Recommender Systems: A Proposal. *IIR2017, Lugano. Switzerland.*
- **10 April 2017**. Do Easy Topics Predict Effectiveness Better Than Difficult Topics? *ECIR2017, Aberdeen. UK.*
- **30 May 2016**. Improving the Efficiency of Retrieval Effectiveness Evaluation: Finding a Few Good Topics with Clustering? *IIR 2016, Venezia. Italy.*
- **12 May 2016**. Improving the Efficiency of Retrieval Effectiveness Evaluation: Finding a Few Good Topics with Clustering and Dimensionality Reduction. *MSc Course Web Information Retrieval). University of Udine, Udine. Italy.*

SKILLS

- **Teaching:** I delivered the "Operating Systems Laboratory" course at University of Udine in 2016-2017.
- **Mentoring:** I co-supervised the thesis of 5 Master (MSC), 2 Bachelor (BSC) Students, and various Student advanced projects and seminars. Many of the thesis lead to published results.
- **Networking:** I worked with various non-homogeneous research groups, building many research partnerships.
- **Technical:** Proficient in: Python, R, NumPy, SciPy, Pandas, Keras, TensorFlow, PyMC3, SQL, Javascript, BigQuery, LaTeX. Familiar with: Java, HTML, CSS, C, WEKA; Basic knowledge of: MATLAB, Scala.
- **Platforms/tools:** GitHub, Google Cloud Suite, Jupyter Notebooks, Slack, Amazon AWS, Figure Eight, Amazon Mechanical Turk, Docker, Office Suite, Linux Shell, Drobox, Google Drive.
- **Languages:** Italian (Mother tongue), English (Listening: C1, Reading: C1, Spoken Interaction: C1, Spoken Production: C1, Writing: C1).
- **Personal Interests:** eager reader, decent runner (12km/1h), film and series watcher, music enthusiast; trying to be the nerd the world needs; keen to minimalism, the art of giving importance to things that really matter.

HONORS, AWARDS, AND GRANTS

- Research Grant with title "Crowdsourcing an Online Safety Benchmark for Fake News Identification".
  Provided by Facebook Research. Call title: "The Online Safety Benchmark". Role: Participant.
- Student Grant to attend "ASIRF2019", Schloss Dagstuhl, Germany. Provided by ASIRF.
- Student Grant to attend "SIGIR2019", Paris, France. Provided by ACM SIGIR.
- Participation in the 7th Heidelberg Laureate Forum. Provided by Heidelberg Laureate Forum Foundation (HLFF).
- Invited Talk to European Network for Combining Language Learning with Crowdsourcing Techniques 2019.
- Student Grant to attend "SIGIR2018", Ann Arbor, Michigan, U.S.A. Provided by ACM SIGIR.
- Allowance to visit RMIT ISAR Group at RMIT University, Melbourne, AUS. Provided by RMIT ISAR.
- Student Grant to attend "ICTIR2017", Amsterdam, NE. Provided by ACM SIGIR.
- Allowance to visit Information School at University of Sheffield, UK. Provided by ERASMUS+ Traineeship.
- Student Grant to attend "ECIR2017", Aberdeen, UK. Provided by BCS IRGS.
- Allowance to visit Alpen-Adria-Universität Kalgenfurt, AU. Provided by University of Udine, and ERAMUS Project.