

# PASQUALE MINERVINI, RÉSUMÉ

Pasquale is a Senior Research Fellow (Grade 8) at UCL, working with the UCL *Natural Language Processing* group and the UCL *Deciding, Acting, and Reasoning with Knowledge* group at the UCL Centre for Artificial Intelligence. My interests are in machine learning from graph-structured data, natural language processing, and improving machine learning systems by drawing connections to other fields of AI, such as knowledge representation and reasoning, and formal verification. My research vision is to design representation learning and deep learning models that are statistically robust and trustworthy, data-efficient, verifiable, and explainable, and their applications.

## CONTACT DETAILS

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OFFICE ADDRESS UCL Centre for Artificial Intelligence, WC1V 6LJ London, UK  
E-MAIL ADDRESS [p.minervini@ucl.ac.uk](mailto:p.minervini@ucl.ac.uk)  
WEBSITE <https://www.neuralnoise.com>

## RESEARCH EXPERIENCE

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- 02/2019 – *Current* *Senior Research Fellow*  
UNIVERSITY COLLEGE LONDON, London, UK  
Senior Research Fellow in Statistical Natural Language Processing and Machine Learning in the UCL Natural Language Processing group. My position is fully funded by a three-years,  $\approx$  4.8 million EUR, Horizon 2020 grant that I applied for, and now manage on the UCL end.
- 11/2020 – 12/2021 *Consultant*  
NEC LABORATORIES EUROPE GMBH, Heidelberg, Germany  
Research collaboration with Dr. Mathias Niepert and his team.
- 10/2016 – 02/2019 *Research Fellow*  
UNIVERSITY COLLEGE LONDON, London, UK  
Research Fellow in Statistical Natural Language Processing and Machine Learning in the UCL Machine Reading group. My position was funded by a Machine Reading grant from the Paul G. Allen Foundation, with Prof. Sebastian Riedel as PI.
- 12/2015 – 10/2016 *Postdoctoral Fellow*  
INSIGHT CENTRE, NUI GALWAY, Galway, Ireland  
Researcher in the area of knowledge discovery from both structured and unstructured data on the Web. The project is fully funded by, and in close collaboration with, Fujitsu Laboratories Ltd. and Fujitsu Ireland.
- 10/2015 – 12/2015 *Natural Language Processing (NLP) Engineer*  
AYLIEN LTD., Dublin, Ireland  
Research, development, and deployment of Deep Learning-based NLP models and systems - improved an internal pre-existing NLP system using differentiable architectures trained via distant supervision, and made it available to paying customers.
- 9/2014 – 9/2015 *Postdoctoral Fellow*  
UNIVERSITÀ DEGLI STUDI DI BARI, Bari, Italy  
Researcher for a research project titled “Methods and Techniques for Publishing and Mining in the Web of Data”.

## EDUCATION

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- MAY 2014 **Ph.D.** in COMPUTER SCIENCE  
Institution: **Università degli Studi di Bari**, Bari, Italy  
Thesis Title: “Mining Methods for the Web of Data”  
Advisor: Prof. Nicola Fanizzi Viva: May 26th, 2014
- FEBRUARY 2010 **Master’s Degree** in COMPUTER SCIENCE  
Institution: **Università degli Studi di Bari**, Bari, Italy  
Grade: **110/110, summa cum laude** (highest possible grade)
- FEBRUARY 2007 **Bachelor’s Degree** in COMPUTER SCIENCE  
Institution: **Università degli Studi di Bari**, Bari, Italy  
Grade: **110/110, summa cum laude** (highest possible grade)

## RESEARCH FUNDING

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- 2021 **Cisco Systems Research Grant**  
Funding Body: **Cisco Systems**  
Value of Award: 400,000 USD  
Duration: January 2022 – December 2024  
Type of Grant: Research Funding  
Role on the Grant: Co-PI (with Dr. Pontus Stenetorp from UCL)
- 2020 **Amazon Research Grant**  
Funding Body: **Amazon Research**  
Value of Award: 100,000 USD  
Duration: January 2021 – December 2021  
Type of Grant: Research Funding  
Role on the Grant: Co-PI (with Dr. Tim Rocktäschel from UCL)
- 2019 **Horizon 2020 Research Grant**  
Funding Body: **European Commission**  
Value of Award: 4,841,962.5 EUR  
Project: [CLARIFY – Cancer Long Survivors Artificial Intelligence Follow Up](#)  
Duration: January 2020 – December 2022  
Type of Grant: Research Funding  
Role on the Grant: Co-PI (with Dr. Pontus Stenetorp from UCL)  
I wrote the ML and NLP-related parts in the project proposal, and I am  
i) Financially, ethically, and legally managing the project on the UCL end,  
ii) Coordinating a WP, and iii) Contributing to several other WPs.
- 2016, 2018 **NVIDIA Academic Hardware Grant (2)**  
Funding Body: **NVIDIA Corporation**  
Value of Award: One NVIDIA Titan X GPU, One NVIDIA Titan Xp GPU  
Type of Grant: Hardware Grant  
Role on the Grant: PI
- 2011 – 2014 **Scholarship**  
Funding Body: **Ministry of Education, Universities and Research (Italy)**  
Value of Award: 46,000 EUR  
Type of Grant: Scholarship

## PRIZES

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- Outstanding Paper Award at ICLR 2021.
- Ranked 1st in two of the three tracks of the Efficient Open-Domain Question Answering challenge at NeurIPS 2020, together with collaborators from UCL and Facebook AI Research. Award: 3,000 USD in Google Cloud credits.
- Winner of the 4th LINKED DATA MINING CHALLENGE (Know@LOD 2016)
- Ranked 5th worldwide in the Kaggle THE ALLEN AI SCIENCE Challenge, 2015
- Best Research Paper Award at the 19th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2014)
- Best Research Paper Award at the 10th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2014)

## TEACHING AND SUPERVISION

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### TEACHING

- Lecturer, Guest Lecturer, and Teaching Assistant (TA) at UCL (2017-2021)
  - Lecturer and TA for *Statistical Natural Language Processing* (2020-2021)
  - Guest Lecturer and TA for *Statistical Natural Language Processing* (2017-2019)
  - Guest Lecturer and TA for *Introduction to Deep Learning* (2019-2020)
  - Guest Lecturer for *Informatics for Healthcare* (2019)
- Speaker for the:
  - AAAI 2021 Tutorial on Explainable AI: From Theory to Motivation, Industrial Applications and Coding Practices
  - AAAI 2020 Tutorial on Explainable AI – Foundations, Industrial Applications, Practical Challenges, and Lessons Learned
  - AAAI 2019 Tutorial on Explainable AI – From Theory to Motivation, Applications and Limitations
  - ECML 2019 Tutorial on Explainable Knowledge Discovery in Data Mining
  - International Experts Tutorial on eXplainable AI, Seoul, Korea  
Travel expenses and salary were provided by the Korea Advanced Institute of Science and Technology (KAIST), Sungkyunkwan University (SKKU), and Inha University.
- Lecturer at the Summer School on Statistical Relational Artificial Intelligence  
Module: Differentiable Program Interpreters
- Guest Lecturer and Teaching Assistant at University of Bari, Italy
  - Guest Lecturer and TA for *Image Processing* (2013-2014)
  - Guest Lecturer and TA for *Computer Programming* (2012-2013)

### PH.D. CO-SUPERVISION

- **Yihong Chen.**  
Ph.D. Student in Computer Science at UCL (2019-)
- **Yuxiang Wu.**  
Ph.D. Student in Computer Science at UCL (2018-)

- **Zhengyao Zhang.**  
Ph.D. Student in Computer Science at UCL (2020-)
- **Pradeep Rao.**  
Ph.D. Student in Social Sciences at UCL (2020-)

#### EXTERNAL EXAMINER

- **Gustav Šír.**  
*Deep Learning with Relational Logic Representations.*  
Degree: PH.D. IN COMPUTER SCIENCE AT CZECH TECHNICAL UNIVERSITY  
Viva: Sept. 2021
- **Sameh K. Mohamed.**  
*Enhancing Knowledge Graph Completion Models and Selected Biological Applications.*  
Degree: PH.D. IN COMPUTER SCIENCE AT NUI GALWAY, IRELAND  
Viva: Feb. 2020

#### MSC SUPERVISION

- **Antonia Calvi.**  
Degree Programme: UCL M.Sc. ML Year: 2020
- **Matteo Donati.**  
Degree Programme: UCL M.Sc. ML Year: 2020
- **Simon Lehnerer.**  
Degree Programme: UCL M.Sc. ML Year: 2020
- **Agnieszka Dobrowolska.**  
Degree Programme: UCL M.Sc. ML Year: 2020  
Published in KR2ML@NeurIPS 2020 and GCLR@AAAI 2021, submitted to UAI 2021.
- **Guoqing Pan.**  
Degree Programme: UCL M.Sc. ML Year: 2020
- **Wanshui Li.**  
Degree Programme: UCL M.Sc. ML Year: 2020
- **Stacey, Joe.**  
Degree Programme: UCL M.Sc. ML Year: 2019  
Published in EMNLP 2020, nominated for the MAPS Faculty Postgraduate Prize.
- **Byun, Jeunghyun.**  
Degree Programme: UCL M.Sc. ML Year: 2019
- **Zhu, Yuchen.**  
Degree Programme: UCL M.Sc. ML Year: 2019
- **Gupta, Arijit.**  
Degree Programme: UCL M.Sc. ML Year: 2019
- **Arakelyan, Erik.**  
Degree Programme: UCL M.Sc. ML Year: 2019  
Published in ICLR 2021, Outstanding Paper Award.
- **Zaman, Khalil.**  
Degree Programme: UCL M.Sc. ML Year: 2018-2019
- **Zheng, Zhedong.**  
Degree Programme: UCL M.Sc. ML Year: 2018
- **Cowen-Rivers, Alexander.**  
Degree Programme: UCL M.Sc. ML Year: 2018  
Published in NeSy at IJCAI 2019.

- **Weber, Philipp Leon.**  
Degree Programme: HU-BERLIN M.Sc. CS Year: 2018  
Published in ACL 2019.
- **Alakuijala, Minttu.**  
Degree Programme: UCL M.ENG. CS Year: 2017-2018
- **Benfatti, Andrea.**  
Degree Programme: UCL M.Sc. ML Year: 2017
- **Zhang, Wenbo.**  
Degree Programme: UCL M.Sc. DS Year: 2017
- **Inglis, Rogan.**  
Degree Programme: UCL M.Sc. ML Year: 2017
- **Coppola, Marco.**  
Degree Programme: UNIBA BSc CS Year: 2012-2013  
Published in ACM SAC 2013.

## INVITED TALKS

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For talks outside the United Kingdom, expenses were covered by the hosting institutions.

- November 19th 2021 - [Warwick Business School](#), Warwick, UK
- November 10th 2021 - [FEVER Workshop](#), co-located with EMNLP 2021
- November 3rd 2021 - [KRHCAI Workshop](#), co-located with KR 2021
- August 24th 2021 - [AstraZeneca](#), Cambridge, UK
- June 29th 2021 - [Amazon Research](#), Cambridge, UK
- May 9-12th 2021 - [Dagstuhl Seminar](#), Leibniz Center for Informatics, Germany
- March 19th 2021 - [NEC Laboratories Europe](#), Heidelberg, Germany
- January 22nd 2021 - [DeepMind](#), London, UK
- January 14th 2021 - [UNESCO World Logic Day in UCL](#), London, UK
- November 11th 2020 - [Sapienza Natural Language Processing Group](#), Rome, Italy
- October 20th 2020 - [DWS Colloquium HWS2020](#), Mannheim, Germany
- February 13th 2020 - [IBM Watson Research Center](#), New York City, New York, US
- January 24th 2020 - [Imperial College London](#), [SPIKE Group](#), London, UK
- November 27th 2019 - [Imperial College London](#), [Explainable AI Seminars](#), London, UK
- August 29th 2019 - [Inha University](#), Incheon, Korea
- August 26th 2019 - [Sungkyunkwan University](#), Suwon Campus, Korea
- June 27th 2019 - [Naver Labs Europe](#), Grenoble, France
- May 2nd 2019 - [Samsung Research AI Center](#), Seoul, South Korea
- February 25th 2019 - [Data & Knowledge Engineering @ Uni. of Cardiff](#), Cardiff, UK
- November 23rd 2018 - [Accenture Labs](#), Dublin, Ireland
- November 5th 2018 - [DTAI @ KU Leuven](#), Leuven, Belgium
- October 25th 2018 - [LTL @ University of Cambridge](#), Cambridge, United Kingdom
- October 19th 2018 - [Twitter Cortex](#), London, United Kingdom
- October 6th 2018 - [Uber AI Labs](#), San Francisco, California, United States
- August 3rd 2018 - [Insight Centre for Data Analytics](#), Galway, Ireland
- February 27th 2018 - [BenevolentAI](#), London, United Kingdom

- November 14th 2017 - [Copenhagen NLP Meetup](#), Copenhagen, Denmark
- September 26th 2017 - [Google NLP Summit](#), Zurich, Switzerland

## ADMINISTRATIVE ACTIVITIES

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### ORGANISER

- [KINN 2021](#), CIKM 2021 Workshop on Knowledge Injection in Neural Networks
- [XGML 2021](#), AKBC 2021 Workshop on Explainable Graph-Based Machine Learning
- [ISWC 2020](#), The 19th International Semantic Web Conference, [Reproducibility Track](#)
- [ECML PKDD 2019](#), Joint International Workshop on [Advances in Interpretable Machine Learning and Artificial Intelligence & eXplainable Knowledge Discovery in Data Mining](#)

### PROGRAM COMMITTEE MEMBER

I routinely review for the following conferences, journals, and funding organisations:

Conference on Neural Information Processing Systems (NeurIPS), AAI Conference on Artificial Intelligence (AAAI), International Joint Conference on Artificial Intelligence (IJCAI), International Conference on Learning Representations (ICLR), IEEE International Conference on Data Mining (ICDM), Annual Meeting of the Association for Computational Linguistics (ACL), Conference on Empirical Methods in Natural Language Processing (EMNLP), Conference on Natural Language Learning (CoNLL), Annual Conference of the North American Chapter of the ACL (NAACL-HLT), International Conference on Computational Linguistics (COLING), ACM Symposium on Applied Computing (SAC), IEEE Transactions on Knowledge and Data Engineering (TKDE), IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), International Semantic Web Conference (ISWC), Journal of Web Semantics (JWS), IEEE International Conference on Semantic Computing (ICSE), International Journal of Semantic Computing (IJSC), Semantic Web Journal (SWJ), Information Sciences Journal, Elsevier (ISJ), Workshop on Automated Knowledge Base Construction (AKBC), Big Data and Cognitive Computing (BDCC), Artificial Intelligence Review (AIRE), Czech Science Foundation, and others.

## PUBLICATIONS, TUTORIALS, AND PATENTS

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### PATENTS

- **Minervini**, Costabello, Muñoz, Nováček, Vandenbussche - Method and Apparatus for Completing a Knowledge Graph - US Patent Office, Application no. 15821088, US Patent App. 15/821,088, Applicant: Fujitsu Ltd.

### TUTORIALS

1. Lecue, **Minervini**, Giannotti, Guidotti - [On Explainable AI: From Theory to Motivation, Industrial Applications and Coding Practices](#). Tutorial for the Thirty-Fifth AAAI Conference on Artificial Intelligence (**AAAI 2021**)
2. Lecue, Gade, Geyik, Kenthapadi, Mithal, Taly, Guidotti, **Minervini** - [On Explainable AI: Foundations, Industrial Applications, Practical Challenges, and Lessons Learned](#). Tutorial for the Thirty-Fourth AAAI Conference on Artificial Intelligence (**AAAI 2020**)
3. Costabello, Lecue, Giannotti, Guidotti, Hitzler, **Minervini**, Sarker - [On Explainable AI: From Theory to Motivation, Applications and Limitations](#). Half-day (3.5 hours) Tutorial for the Thirty-Third AAAI Conference on Artificial Intelligence (**AAAI 2019**)
4. Guidotti, **Minervini**, Monreale, Rinzivillo - [Tutorial on Explainable Knowledge Discovery in Data Mining](#). Tutorial for the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (**ECML-PKDD 2019**)

5. Lecue, **Minervini** - [International Experts Tutorial on eXplainable AI](#). Artificial Intelligence Research Society, Seoul, Korea

## PAPERS

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Please note that, while in other disciplines conferences are generally just communication vehicles for presenting work which is typically submitted to journals, Computer Science conferences publish proceedings of papers that are fully refereed publications, and are often perceived to be of better quality and more prestigious than most journals. This is especially true for the top conferences in Artificial Intelligence (AAAI, IJCAI, UAI), Machine Learning (ICML, NeurIPS, ICLR, AAMAS), and Natural Language Processing (ACL, EMNLP, EACL, CoNLL), which are considered the best venue for publishing novel and ground-breaking results.

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1. Arakelyan\*, Daza\*, **Minervini\***, Cochez - Complex Query Answering with Neural Link Predictors - Submitted to the 9th International Conference on Learning Representations (**ICLR 2021**, **oral presentation** 2% acceptance rate, overall 29%)  
[Outstanding Paper Award](#)
2. Niepert, **Minervini**, Franceschi - Implicit MLE: Backpropagating Through Discrete Exponential Family Distributions. 35th Conference on Neural Information Processing Systems (**NeurIPS 2021**)
3. Jiang, **Minervini**, Jiang, Rocktäschel - Grid-to-Graph: Flexible Spatial Relational Inductive Biases for Reinforcement Learning. 20th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS 2021**, 24.8% acceptance rate)
4. Lewis, Wu, Liu, **Minervini**, Küttler, Piktus, Stenetorp, Riedel - PAQ: 65 Million Probably-Asked Questions and What You Can Do With Them. Transactions of the Association for Computational Linguistics (**TACL 2021**)
5. Wu, **Minervini**, Stenetorp, Riedel - Training Adaptive Computation for Open-Domain Question Answering with Computational Constraints. The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (**ACL-IJCNLP 2021**, 14.9% acceptance rate)
6. Mohamed, Walsh, Timilsina, Torrente, Franco, Provencio, Janik, Costabello, **Minervini**, Stenetorp, Nováček - On Predicting Recurrence in Early Stage Non-small Cell Lung Cancer. American Medical Informatics Association Annual Symposium (**AMIA 2021**)
7. de Vassimon Manela, Errington, Fisher, van Breugel, **Minervini** - Stereotype and Skew: Quantifying Gender Bias in Pre-trained and Fine-tuned Language Models. 16th Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2021**)
8. Dobrowolska, Vergari, **Minervini** - Neural Concept Formation in Knowledge Graphs. 3rd International Conference on Automated Knowledge Base Construction (**AKBC 2021**)
9. Chen, **Minervini**, Stenetorp, Riedel - Relation Prediction as an Auxiliary Training Objective for Improving Multi-Relational Graph Representations. 3rd International Conference on Automated Knowledge Base Construction (**AKBC 2021**)
10. Torrente, Franco, Calvo, Collazo Lorduy, Menasalvas, Vidal, Sousa, Pimentao, Novacek, **Minervini**, Fey, Costabello, Pocs, Provencio - P08.01 Building Personalized Follow-Up Care Through AI by Bringing the Lung Cancer Patient, Data Scientist and Oncologist

Together. Journal of Thoracic Oncology, International Association for the Study of Lung Cancer 16(10):S991-S992, October 2021

11. Betz, Niepert, **Minervini**, Stuckenschmidt - Backpropagating through Markov Logic Networks. 15th International Workshop on Neural-Symbolic Learning and Reasoning (**NeSy** 2021)
12. Chauhan, Gupta, **Minervini** - A Probabilistic Framework for Knowledge Graph Data Augmentation. Data-Centric AI Workshop at NeurIPS (**DCAI** 2021)
13. **Minervini**, Riedel, Stenetorp, Grefenstette, Rocktäschel - Learning Reasoning Strategies in End-to-End Differentiable Proving - 37th International Conference on Machine Learning (**ICML** 2020, 21.8% acceptance rate)
14. **Minervini**\*, Bošnjak\*, Rocktäschel, Riedel, Grefenstette - Differentiable Reasoning on Large Knowledge Bases and Natural Language - 34th AAAI Conference on Artificial Intelligence (**AAAI** 2020, **oral presentation** 4.5% acceptance rate; overall 20.6%)
15. Camburu, Shillingford, **Minervini**, Lukasiewicz, Blunsom - Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations. 58th Annual Meeting of the Association for Computational Linguistics (**ACL** 2020, 17.6% acceptance rate)
16. Wu, **Minervini**, Stenetorp, Riedel - Don't Read Too Much Into It: Adaptive Computation for Open-Domain Question Answering. The 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2020, 22.4% acceptance rate)
17. Stacey, **Minervini**, Dubossarsky, Riedel, Rocktäschel - Gone At Last: Removing the Hypothesis-Only Bias in Natural Language Inference via Ensemble Adversarial Training. The 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2020, 22.4% acceptance rate)
18. Welbl, **Minervini**, Bartolo, Stenetorp, Riedel - Undersensitivity in Neural Reading Comprehension. The 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2020, Findings)
19. Min, Boyd-Graber, Alberti, Chen, Choi, Collins, Guu, Hajishirzi, Lee, Palomaki, Raffel, Roberts, Kwiatkowski, Lewis, Wu, Küttler, Liu, **Minervini**, Stenetorp, Riedel, Yang, Seo, Izacard, Petroni, Hosseini, De Cao, Grave, Yamada, Shimaoka, Suzuki, Miyawaki, Sato, Takahashi, Suzuki, Fajcik, Docekal, Ondrej, Smrz, Cheng, Shen, Liu, He, Chen, Gao, Oguz, Chen, Karpukhin, Peshterliev, Okhonko, Schlichtkrull, Gupta, Mehdad, Yih - NeurIPS 2020 EfficientQA Competition: Systems, Analyses and Lessons Learned. NeurIPS 2020 Competition and Demonstration Track (**NeurIPS** 2020)
20. **Minervini**, Bošnjak, Rocktäschel, Riedel, Grefenstette - Differentiable Reasoning on Large Knowledge Bases and Natural Language - Chapter in *Knowledge Graphs for eXplainable Artificial Intelligence: Foundations, Applications and Challenges*, IOS Press
21. Bianchi, Rossiello, Costabello, Palmonari, **Minervini** - Knowledge Graph Embeddings and Explainable AI - Chapter in *Knowledge Graphs for eXplainable Artificial Intelligence: Foundations, Applications and Challenges*, IOS Press
22. Dobrowolska, Vergari, **Minervini** - Neural Concept Formation in Knowledge Graphs - Knowledge Representation & Reasoning Meets Machine Learning Workshop at NeurIPS (**KR2ML** 2020)
23. Jiang, Luketina, Nardelli, **Minervini**, Torr, Whiteson, Rocktäschel - WordCraft: An Environment for Benchmarking Commonsense Agents. CoRR abs/2007.09185 (2020)
24. Camburu, Shillingford, **Minervini**, Lukasiewicz, Blunsom - Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations - NeurIPS 2019 Workshop on Safety and Robustness in Decision Making (**SafeRobust@NeurIPS**, 2019)



25. Weber, **Minervini**, Münchmeyer, Leser, Rocktäschel - NLProlog: Reasoning with Weak Unification for Question Answering in Natural Language - 57th Annual Meeting of the Association for Computational Linguistics (**ACL** 2019, 22.7% acceptance rate)
26. Muñoz, **Minervini**, Nickles - Embedding Cardinality Constraints in Neural Link Predictors - 34th ACM/SIGAPP Symposium on Applied Computing (**ACM SAC** 2019, 25% acceptance rate)
27. Cowen-Rivers, **Minervini**, Riedel, Rocktäschel, Wang, Bošnjak - Neural Variational Inference for Estimating Knowledge Graph Embedding Uncertainty - 14th International Workshop on Neural-Symbolic Learning and Reasoning (**NeSy@IJCAI** 2019)
28. **Minervini**, Riedel - Adversarially Regularising Neural NLI Models to Integrate Logical Background Knowledge - SIGNLL Conference on Computational Natural Language Learning (**CoNLL** 2018, 20.65% acceptance rate)
29. **Minervini**, Bošnjak, Campero, Rocktäschel, Grefenstette, Riedel - Neural Theorem Proving on Natural Language - International Conference on Probabilistic Programming (**PROBPROG** 2018)
30. **Minervini**, Bošnjak, Rocktäschel, Riedel - Towards Neural Theorem Proving at Scale - Workshop on Neural Abstract Machines & Program Induction (**NAMPI** 2018)
31. Mitchell, **Minervini**, Stenetorp, Riedel - Extrapolation in NLP - Workshop on Generalization in the Age of Deep Learning (**NAACL** 2018)
32. Weissenborn, **Minervini**, Dettmers, Augenstein, Welbl, Rocktäschel, Bošnjak, Mitchell, Demeester, Stenetorp, Riedel - Jack the Reader – A Machine Reading Framework - Annual Meeting of the Association for Computational Linguistics (**ACL** 2018), System Demonstrations
33. Dettmers, **Minervini**, Stenetorp, Riedel - Convolutional 2D Knowledge Graph Embeddings - 31st AAAI Conference on Artificial Intelligence (**AAAI** 2018, 24.6% acceptance rate)
34. **Minervini**, Tresp, d’Amato, Fanizzi - Adaptive Knowledge Propagation in Web Ontologies - ACM Transactions on the Web (**TWEB** 2018)
35. **Minervini**, Demeester, Rocktäschel, Riedel - Adversarial Sets for Regularising Neural Link Predictors - 33rd Conference on Uncertainty in Artificial Intelligence (**UAI** 2017)
36. **Minervini**, Costabello, Muñoz, Nováček, Vandenbussche - Regularizing Knowledge Graph Embeddings via Equivalence and Inversion Axioms - European Conference on Machine Learning & Principles and Practice of Knowledge Discovery in Databases (**ECML-PKDD** 2017) (27% acceptance rate)
37. **Minervini**, d’Amato, Fanizzi - Efficient Energy-Based Embedding Models for Link Prediction in Knowledge Graphs - Journal on Intelligent Information Systems (**JiIS** 2016), Recent Advances in Mining Patterns from Complex Data, ISSN 1573-7675
38. **Minervini**, d’Amato, Fanizzi, Tresp - Discovering Similarity and Dissimilarity Relations for Knowledge Propagation in Web Ontologies - Journal on Data Semantics (**JoDS** 2016), ISSN 1861-2040
39. **Minervini**, d’Amato, Fanizzi - Leveraging the Schema in Latent Factor Models for Knowledge Graph Completion - Proceedings of the ACM Symposium on Applied Computing - Semantic Web Track (**ACM SAC** 2016), Pisa, Italy (24% acceptance rate)
40. Yumusak, Muñoz, **Minervini**, Dogdu, Kodaz - A Hybrid Method for Rating Prediction Using Linked Data Features and Text Reviews - (**KNOW@LOD/CoDeS@ESWC** 2016)

41. **Minervini**, d'Amato, Fanizzi, Esposito - Scalable Learning of Entity and Predicate Embeddings for Knowledge Graph Completion - 14th IEEE International Conference on Machine Learning and Applications, (**ICMLA 2015**), ISBN 978-1-5090-0287-0
42. **Minervini**, d'Amato, Fanizzi, Esposito - Efficient Learning of Entity and Predicate Embeddings for Link Prediction in Knowledge Graphs - Proceedings of the 11th International Workshop on Uncertainty Reasoning for the Semantic Web (**URSW 2015**)
43. **Minervini**, d'Amato, Fanizzi, Esposito - A Gaussian Process Model for Knowledge Propagation in Web Ontologies - IEEE International Conference on Data Mining (**ICDM 2014**), ISBN 978-1-4799-4302-9 (19% acceptance rate)
44. **Minervini**, d'Amato, Fanizzi, Esposito - Adaptive Knowledge Propagation in Web Ontologies - Proceedings of the 19th International Conference on Knowledge Engineering and Knowledge Management (**EKAW 2014**), ISBN 978-3-319-13703-2, Linköping, Sweden (**best research paper award**)
45. **Minervini**, d'Amato, Fanizzi, Esposito - Graph-Based Regularization for Transductive Class-Membership Prediction. In: Uncertainty Reasoning for the Semantic Web III - ISWC International Workshops, **URSW 2011-2013**, Revised Selected Papers - Springer, ISBN: 978-3-319-13412-3
46. **Minervini**, d'Amato, Fanizzi, Esposito - Learning Probabilistic Description Logic Concepts Under Alternative Assumptions on Incompleteness. In: Uncertainty Reasoning for the Semantic Web III - ISWC International Workshops, **URSW 2011-2013**, Revised Selected Papers - Springer, ISBN: 978-3-319-13412-3
47. **Minervini**, d'Amato, Fanizzi, Tresp - Learning to Propagate Knowledge in Web Ontologies. - Proceedings of the 10th International Workshop on Uncertainty Reasoning for the Semantic Web (**URSW 2014**, **best research paper award**)
48. **Minervini**, Fanizzi, d'Amato, Esposito - Rank Prediction for Semantically Annotated Resources - Proceedings of the ACM Symposium on Applied Computing - Semantic Web Track (**ACM SAC 2013**), ISBN 978-1-4503-1656-9 (24% acceptance rate)
49. **Minervini**, d'Amato, Fanizzi, Esposito - Transductive Inference for Class-Membership Propagation in Web Ontologies - The Semantic Web: Semantics and Big Data (**ESWC 2013**), ISBN 978-3-642-38287-1 (26% acceptance rate)
50. **Minervini**, d'Amato, Fanizzi - A Graph Regularization Based Approach to Transductive Class-Membership Prediction - Proceedings of the 8th International Workshop on Uncertainty Reasoning for the Semantic Web (**URSW 2012**)
51. Fanizzi, d'Amato, Esposito, **Minervini** - Numeric Prediction on OWL Knowledge Bases through Terminological Regression Trees - International Journal on Semantic Computing (**IJSC**) 2012
52. **Minervini**, d'Amato, Fanizzi - Learning Terminological Bayesian Classifiers: A Comparison of Alternative Approaches to Dealing with Unknown Concept Memberships - Proceedings of the 9th Italian Convention on Computational Logic (**CILC 2012**)
53. **Minervini**, d'Amato, Fanizzi - Learning Terminological Naive Bayesian Classifiers under Different Assumptions on Missing Knowledge. Proceedings of the 7th International Workshop on Uncertainty Reasoning for the Semantic Web (**URSW 2011**), CEUR Workshop Proceedings vol. 778 ISSN 1613-0073, pg. 63-74
54. **Minervini**, d'Amato, Fanizzi - Learning Probabilistic Description Logic Concepts Under Different Assumptions on Missing Knowledge. Proceedings of the ACM Symposium on Applied Computing - Semantic Web Track (**ACM SAC 2012**), ISBN 978-1-4503-0857-1 (26% acceptance rate)

55. Calefato, Lanubile, **Minervini** - Can Real-Time Machine Translation Overcome Language Barriers in Distributed Requirements Engineering? - 5th IEEE International Conference on Global Software Engineering (**ICGSE** 2010) ISBN 978-1-4244-7619-0
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