

PASQUALE MINERVINI, CURRICULUM VITAE

Pasquale is a Lecturer in Natural Language Processing at the School of Informatics, University of Edinburgh, and a member of the ELLIS Society — Edinburgh Unit. His research interests include NLP and ML, focusing on relational learning and learning from graph-structured data, solving knowledge-intensive tasks, hybrid neuro-symbolic models, compositional generalisation, and designing data-efficient and robust deep learning models. Pasquale published over 60 peer-reviewed papers in top-tier AI conferences, receiving multiple awards (including one [Outstanding Paper Award](#) at ICLR 2021, one of the [most influential conferences in AI](#)), and delivered several tutorials on Explainable AI and relational learning (including five AAAI tutorials). On behalf of the University of Edinburgh and UCL, he is the Principal Investigator (PI) of the EU Horizon 2020 research grant *CLARIFY – Cancer Long Survivors Artificial Intelligence Follow Up*, the [Edinburgh Laboratory on Integrated Artificial Intelligence \(ELIAI\)](#) grant *Gradient-based Learning of Complex Latent Structures*, the Edinburgh-Huawei Joint Laboratory grant *Answering Complex Questions at Scale*, and leads several partnerships with other institutions and companies. In 2020, his team won two tracks out of three of the [Efficient Open-Domain Question Answering Challenge](#) at NeurIPS 2020; more recently, two of his PhD students ranked 1st in the [SemEval 2024 Task 2: Safe Biomedical Natural Language Inference for Clinical Trials](#) competition. Pasquale routinely collaborates with researchers across both academia and industry.

CONTACT DETAILS

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TWITTER [@pminervini](#)

RESEARCH EXPERIENCE

- 09/2022 – *Current* *Lecturer in Natural Language Processing*
UNIVERSITY OF EDINBURGH, Edinburgh, UK
Lecturer (Research, with tenure) in Natural Language Processing at the Institute of Language, Cognition and Communication (ILCC) at the School of Informatics. Programme Director of BSc AI; BSc AI&CS; BSc AI&Maths; BSc AI&SE. Teaching: *Knowledge Graphs* and *Natural Language Understanding, Generation, and Machine Translation*.
- 02/2019 – 09/2022 *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 was fully funded by a three-year, \approx 4.8 million EUR, Horizon 2020 grant that I manage as the PI on the UCL ends.
- 11/2020 – 12/2021 *Research 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 internal pre-existing NLP systems via neural architectures trained via distant supervision and labelled data and made them available via APIs to 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

- MAY 2014 **PhD** 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

- 2024 **Edinburgh-Huawei Joint Lab Grant**
Funding Body: **Huawei**
Value of Award: 296,919.43 GBP
Duration: September 2024 – September 2027
Type of Grant: Research Funding
Role on the Grant: PI
- 2024 **Generative AI Hub**
Funding Body: **UKRI**
Type of Grant: Research Funding
Role on the Grant: Co-PI (PI: David Barber from UCL)
More details available [at this link](#); more on EPSRC AI Hubs [here](#).
- 2022 **ELIAI Research Grant**
Funding Body: **Edinburgh Laboratory for Integrated AI**
Value of Award: 126,571.00 GBP
Duration: January 2023 – January 2025
Type of Grant: Research Funding

Role on the Grant: PI (with Antonio Vergari and Edoardo Ponti from UoE)

2022 **Accenture Labs Grant**

Funding Body: **Accenture Labs**
Value of Award: 25,000 USD
Duration: January 2023 – January 2024
Type of Grant: Donation
Role on the Grant: PI

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 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 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 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: **Italian Ministry of Education, Universities and Research**
Value of Award: 46,000.00 EUR
Type of Grant: Scholarship

AWARDS

- Ranked 1st in the [SemEval 2024 Task 2: Safe Biomedical Natural Language Inference for Clinical Trials](#) competition. Award: 100.00 GBP.
- [Best Poster Award at ENLSP @ NeurIPS 2022](#). Award: 750.00 USD.
- [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)

EXAMINER

- **Mattia Atzeni**
Infusing Structured Knowledge Priors in Neural Models for Sample-Efficient Symbolic Reasoning
Degree: PHD IN COMPUTER SCIENCE AT EPFL
Viva: December 2023
- **Giannis Papantonis**
Transparency: From Tractability to Model Explanations
Degree: PHD IN INFORMATICS AT THE UNIVERSITY OF EDINBURGH
Viva: June 2023
- **Nicolas Angelard-Gontier**
Natural Language Reasoning with Transformer Language Models
Degree: PHD IN COMPUTER SCIENCE AT POLYTECHNIQUE MONTRÉAL
Viva: April 2023
- **Salvatore Citraro, Andrea Valenti, Giacomo Iadarola, Giulia Palma, Iason Manolas**
Degree: PHD AT UNIVERSITY OF PISA, FLORENCE, AND SIENA
Viva: February 2023
- **Prachi Jain**
Language, Structure, Time-Aware Knowledge Base Completion
Degree: PHD IN COMPUTER SCIENCE AT IIT DELHI
Viva: April 2022
- **Peru Bhardwaj**
Adversarial Robustness of Representation Learning for Knowledge Graphs Degree: PHD IN COMPUTER SCIENCE AT TRINITY COLLEGE DUBLIN
Viva: June 2022
- **Gustav Šír.**
Deep Learning with Relational Logic Representations.
Degree: PHD IN COMPUTER SCIENCE AT CZECH TECHNICAL UNIVERSITY
Viva: Sept. 2021
- **Sameh K. Mohamed.**
Enhancing Knowledge Graph Completion Models and Selected Biological Applications.
Degree: PHD IN COMPUTER SCIENCE AT NUI GALWAY, IRELAND
Viva: Feb. 2020

INVITED TALKS

- February 23rd, 2024 - [Cambridge NLP Talks](#), Natural Language and Information Processing Research Group at the University of Cambridge, Cambridge, UK
- November 8th, 2023 - [Focal Talk](#), French Alternative Energies and Atomic Energy Commission (CEA), Paris, France
- September 19th, 2023 - [ECSQARU 2023](#), Université d'Artois - CNRS, France
- July 9th, 2023 - [Oxford Machine Learning Summer School](#), Oxford, UK

- May 11th, 2023 - [Fondazione Bruno Kessler](#), Trento, Italy
- December 19th, 2022 - [IST & Unbabel ELLIS Seminar](#), Lisbon, Portugal
- November 30th, 2022 - [XAI.it](#), Udine, Italy
- November 24th, 2022 - [AOC Seminar](#), Paris, France
- 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

CONFERENCES AND WORKSHOPS

- [EACL 2024](#), Sponsorship Chair
- [EMNLP 2023](#), Area Chair
- [LoG 2022](#), Area Chair
- [KINN 2021 @ CIKM 2021](#), Organiser
- [XGML 2021 @ AKBC 2021](#), Organiser
- [ISWC 2020](#), Reproducibility Track Chair

□ [AIMLAI-XKDD @ ECML PKDD 2019](#), Tutorial Program Chair

PROGRAM COMMITTEE MEMBER

Pasquale routinely does review services 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

PATENTS

- **Minervini**, Costabello, Muñoz, Nováček, Vandenbussche - Method and Apparatus for Completing a Knowledge Graph - US Patent Office, US Patent 11,341,417, Assignee: Fujitsu Ltd.

TUTORIALS

1. Lecue, Giannotti, Guidotti, **Minervini** - [On Explainable AI: From Theory to Motivation, Industrial Applications, XAI Coding & Engineering Practices](#). Tutorial for the Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI** 2023)
2. Lecue, Giannotti, Guidotti, **Minervini** - [On Explainable AI: From Theory to Motivation, Industrial Applications, XAI Coding & Engineering Practices](#). Tutorial for the Thirty-Sixth AAAI Conference on Artificial Intelligence (**AAAI** 2022)
3. 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)
4. 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)
5. 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)
6. 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)
7. Lecue, **Minervini** - [International Experts Tutorial on eXplainable AI](#). Artificial Intelligence Research Society, Seoul, Korea

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.

1. **Minervini**, Franceschi, Niepert - Adaptive Perturbation-Based Gradient Estimation for Discrete Latent Variable Models. 37th AAAI Conference on Artificial Intelligence (**AAAI** 2023, 19.6% acceptance rate)
2. Arakelyan*, **Minervini***, Daza, Cochez, Augenstein - Adapting Neural Link Predictors for Data-Efficient Complex Query Answering. 37th Conference on Neural Information Processing Systems (**NeurIPS** 2023, 26% acceptance rate)
3. Kaddour, Key, Nawrot, **Minervini**, Kusner - No Train No Gain: Revisiting Efficient Training Algorithms For Transformer-based Language Models. 37th Conference on Neural Information Processing Systems (**NeurIPS** 2023, 26% acceptance rate)
4. Andresel, Tran, Domokos, **Minervini**, Stepanova - Combining Inductive and Deductive Reasoning for Query Answering over Incomplete Knowledge Graphs. 32nd ACM International Conference on Information and Knowledge Management (**CIKM** 2023)
5. Zhou, Iacobacci, **Minervini** - XQA-DST: Multi-Domain and Multi-Lingual Dialogue State Tracking. 17th Conference of the European Chapter of the Association for Computational Linguistics (**EACL** 2023)
6. Janik, Torrente, Costabello, Calvo, Walsh, Camps, Mohamed, Ortega, Nováček, Massutí, **Minervini**, Garcia Campelo, Del Barco, Bosch-Barrera, Menasalvas, Timilsina, Provencio - Machine Learning-Assisted Recurrence Prediction for Patients With Early-Stage Non-Small-Cell Lung Cancer. JCO Clinical Cancer Informatics 2023:7
7. Timilsina, Fey, Buosi, Janik, Costabello, Carcereny, Rodriguez Abreu, Cobo, López Castro, Bernabé, **Minervini**, Torrente, Provencio, Nováček - Synergy between imputed genetic pathway and clinical information for predicting recurrence in early-stage non-small cell lung cancer. Journal of Biomedical Informatics 144, ISSN 1532-0464
8. Timilsina, Buosi, Janik, **Minervini**, Costabello, Torrente, Provencio, Calvo, Camps, Ortega, Massutí, Garcia Campelo, del Barco Bosch-Barrera, Nováček - Learning Survival Models for Relapse Prediction in Early-Stage Lung Cancer Patients. International Joint Conference on Neural Networks (**IJCNN** 2023)
9. Cochez, Alivanistos, Arakelyan, Berrendorf, Daza, Galkin, Minervini, Niepert, Ren - Approximate Answering of Graph Queries. Chapter in *Compendium of Neurosymbolic Artificial Intelligence*, IOS Press, 2023
10. Chen, Mishra, Franceschi, **Minervini**, Stenetorp, Riedel - ReFactor GNNs: Revisiting Factorisation-based Models from a Message-Passing Perspective. 36th Conference on Neural Information Processing Systems (**NeurIPS** 2022)
11. Stacey, **Minervini**, Dubossarsky, Rei - Logical Reasoning with Span Predictions: Span-level Logical Atoms for Interpretable and Robust NLI Models. 2022 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2022)

12. Wu, Zhao, Hu, **Minervini**, Stenetorp, Riedel - An Efficient Memory-Augmented Transformer for Knowledge-Intensive NLP Tasks. 2022 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2022**) and Efficient Natural Language and Speech Processing Workshop (**ENLSP @ NeurIPS 2022**, [best poster award](#))
13. Amin*, **Minervini***, Chang, Stenetorp, Neumann - MedDistant19: Towards an Accurate Benchmark for Broad-Coverage Biomedical Relation Extraction. 29th International Conference on Computational Linguistics (**COLING 2022**)
14. **Minervini***, Arakelyan*, Daza*, Cochez - Complex Query Answering with Neural Link Predictors (Extended Abstract). 31st International Joint Conference on Artificial Intelligence (**IJCAI 2022**)
15. Morris, **Minervini**, Blunsom - Learning Proof Path Selection Policies in Neural Theorem Proving. 16th International Workshop on Neural-Symbolic Learning and Reasoning (**NeSy @ IJCLR 2022**), and 4th Conference on Automated Knowledge Base Construction (**AKBC 2022**)
16. Wren, **Minervini**, Franceschi, Zantedeschi - Learning Discrete Directed Acyclic Graphs via Backpropagation. Workshop on Causality for Real-world Impact (**CML4Impact @ NeurIPS 2022**), and Workshop on Neuro Causal and Symbolic AI (**nCSI @ NeurIPS 2022**)
17. Arakelyan*, Daza*, **Minervini***, Cochez - Complex Query Answering with Neural Link Predictors. 9th International Conference on Learning Representations (**ICLR 2021**, **oral presentation** 2% acceptance rate, overall 29% – [Outstanding Paper Award](#))
18. Niepert, **Minervini**, Franceschi - Implicit MLE: Backpropagating Through Discrete Exponential Family Distributions. 35th Conference on Neural Information Processing Systems (**NeurIPS 2021**)
19. 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)
20. 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**)
21. 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)
22. **Minervini**, Riedel, Stenetorp, Grefenstette, Rocktäschel - Learning Reasoning Strategies in End-to-End Differentiable Proving - Chapter in *Neuro-Symbolic Artificial Intelligence: The State of the Art*, IOS Press, 2022
23. 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**)
24. 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**)
25. Dobrowolska, Vergari, **Minervini** - Neural Concept Formation in Knowledge Graphs. 3rd International Conference on Automated Knowledge Base Construction (**AKBC**)

2021)

26. 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)
27. 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
28. Betz, Niepert, **Minervini**, Stuckenschmidt - Backpropagating through Markov Logic Networks. 15th International Workshop on Neural-Symbolic Learning and Reasoning (**NeSy** 2021)
29. Chauhan, Gupta, **Minervini** - A Probabilistic Framework for Knowledge Graph Data Augmentation. Data-Centric AI Workshop at NeurIPS (**DCAI** 2021)
30. **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)
31. **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%)
32. 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)
33. 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)
34. 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)
35. Welbl, **Minervini**, Bartolo, Stenetorp, Riedel - Undersensitivity in Neural Reading Comprehension. The 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2020, Findings)
36. 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)
37. **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, 2020
38. 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, 2020

39. Dobrowolska, Vergari, **Minervini** - Neural Concept Formation in Knowledge Graphs - Knowledge Representation & Reasoning Meets Machine Learning Workshop at NeurIPS (**KR2ML** 2020)
40. Jiang, Luketina, Nardelli, **Minervini**, Torr, Whiteson, Rocktäschel - WordCraft: An Environment for Benchmarking Commonsense Agents. CoRR abs/2007.09185 (2020)
41. 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)
42. 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)
43. Muñoz, **Minervini**, Nickles - Embedding Cardinality Constraints in Neural Link Predictors - 34th ACM/SIGAPP Symposium on Applied Computing (**ACM SAC** 2019, 25% acceptance rate)
44. 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)
45. **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)
46. **Minervini**, Bošnjak, Campero, Rocktäschel, Grefenstette, Riedel - Neural Theorem Proving on Natural Language - International Conference on Probabilistic Programming (**PROBPROG** 2018)
47. **Minervini**, Bošnjak, Rocktäschel, Riedel - Towards Neural Theorem Proving at Scale - Workshop on Neural Abstract Machines & Program Induction (**NAMPI** 2018)
48. Mitchell, **Minervini**, Stenetorp, Riedel - Extrapolation in NLP - Workshop on Generalization in the Age of Deep Learning (**NAACL** 2018)
49. 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
50. Dettmers, **Minervini**, Stenetorp, Riedel - Convolutional 2D Knowledge Graph Embeddings - 31st AAAI Conference on Artificial Intelligence (**AAAI** 2018, 24.6% acceptance rate)
51. **Minervini**, Tresp, d’Amato, Fanizzi - Adaptive Knowledge Propagation in Web Ontologies - ACM Transactions on the Web (**TWEB** 2018)
52. **Minervini**, Demeester, Rocktäschel, Riedel - Adversarial Sets for Regularising Neural Link Predictors - 33rd Conference on Uncertainty in Artificial Intelligence (**UAI** 2017)
53. **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)
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