

Roy Schwartz, Curriculum Vitae, June 2023

Contact Information

The Hebrew University of Jerusalem
School of Computer Science and Engineering, Edmond
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Academic Positions

Senior Lecturer, Hebrew University of Jerusalem	2020–
Research Scientist, Allen Institute for Artificial Intelligence	2019–2020
Postdoctoral Scholar, University of Washington	2016–2019
Host: Prof. Noah A. Smith	
Postdoctoral Scholar, Allen Institute for Artificial Intelligence	2016–2019

Education

The Hebrew University of Jerusalem	2011–2016
Ph.D., School of Computer Science and Engineering	
The Hebrew University of Jerusalem	2009–2011
M.Sc. magna cum laude in Computer Science	
The Hebrew University of Jerusalem	2005–2008
B.Sc. magna cum laude in Computer Science and Cognitive Science	
Member of the Amirim program for outstanding undergraduate students of sciences	

Awards and Scholarships

PAPER AWARDS

Journal cover; Communications of the ACM (CACM)	2020
Best paper award; Workshop on Representation Learning for NLP (RepL4NLP)	2018
Best performing system; Workshop on Linking Models of Lexical, Sentential and Discourse-Level Semantics (LSDSem) shared task	2017

GRANTS

Israeli Science Foundation (ISF) Grant (\$225,000)	2021–2025
U.S.-Israeli Binational Science Foundation (NSF-BSF) Grant (\$225,000)	2021–2024
Intel Research Gift (\$150,000)	2021–2024
Google Research Gift (\$30,000)	2022
Allen Institute for AI Research Gift (\$100,000)	2020
Hebrew University Data Science Center Research Grant (\$20,000)	2020,2021
NVIDIA's GPU grant	2017,2018

OUTSTANDING REVIEWER

North American Chapter of the Association of Computational Linguistics (NAACL)	2018
Annual Meeting of the Association of Computational Linguistics (ACL)	2014,2015,2017,2021

TEACHING AWARDS

Ranked first in the School of Computer Science student evaluation survey	2012
Faculty of Science excellent teachers list based on student evaluation	2010

Students

PHD

[1] **Yonatan Bitton**, *Bridging Vision and Language with Data: From Perception to Understanding*. 2023. Co-advised with Gabriel Stanovsky

MASTERS

[1] **Daniel Rotem**, *Finding the SWEET Spot: Analysis and Improvement of Adaptive Inference in Low Resource Settings*. 2023

- [2] **Yuval Reif**, *Fighting Bias with Bias: Promoting Model Robustness by Amplifying Dataset Biases*. 2023
- [3] **Aviad Sar Shalom**, *Curating Datasets for Better Performance with Example Training Dynamics*. 2023
- [4] **Michael Hassid**, *How Much Does Attention Actually Attend? Questioning the Importance of Attention in Pretrained Transformers*. 2022
- [5] **Boaz Beldinger**, *Attempts for Improving Prompting in Few-Shot Methods and Utilization of Unlabeled Data in Few-Shot Environments*. 2022
- [6] **Inbal Magar**, *Data Contamination: From Memorization to Exploitation*. 2022
- [7] **Yarden Tal**, *Fewer Errors, but More Stereotypes? The Effect of Model Size on Gender Bias*. 2022

UNDERGRADUATE

- [1] **Roi Tal**, *Teaching Machines to Solve Hebrew Cryptic Puzzles*. 2022

Publications

JOURNAL ARTICLES

- [1] M. Treviso, T. Ji, J. Lee, B. v. Aken, Q. Cao, M. R. Ciosici, M. Hassid, K. Heafield, S. Hooker, C. Raffel, P. H. Martins, A. F. T. Martins, J. Forde, P. Milder, E. Simpson, N. Slonim, J. Dodge, E. Strubell, N. Balasubramanian, L. Derczynski, I. Gurevych, and **R. Schwartz**. 2023. *Efficient Methods for Natural Language Processing: A Survey*. Transactions of the Association for Computational Linguistics (TACL).
- [2] J. Acs, E. Hamerlik, **R. Schwartz**, N. A. Smith, and A. Kornai. 2023. Morphosyntactic Probing of Multilingual BERT Models. Natural Language Engineering (NLE).
- [3] W. Merrill, Y. Goldberg, **R. Schwartz**, and N. A. Smith. 2021. *Provable Limitations of Acquiring Meaning from Ungrounded Form: What will Future Language Models Understand?*. Transactions of the Association for Computational Linguistics (TACL).
- [4] **R. Schwartz**, D. Dodge, N. A. Smith, and O. Etzioni. 2020. *Green AI*. Communications of the ACM (CACM). **Journal Cover**.
- [5] D. Rotem, M. Hassid, J. Mamou, and **R. Schwartz**, *Finding the SWEET Spot: Analysis and Improvement of Adaptive Inference in Low Resource Settings*. Annual Meeting of the Association of Computational Linguistics (ACL 2023).
- [6] Y. Reif, and **R. Schwartz**, *Fighting Bias with Bias: Promoting Model Robustness by Amplifying Dataset Biases*. Findings of the Association of Computational Linguistics (Findings of ACL 2023).
- [7] A. Sar-Shalom, and **R. Schwartz**, *Curating Datasets for Better Performance with Example Training Dynamics*. Findings of the Association of Computational Linguistics (Findings of ACL 2023).
- [8] Y. Bitton, R. Yosef, E. Strugo, D. Shahaf, **R. Schwartz**, and G. Stanovsky, *VASR: Visual Analogies of Situation Recognition*. AAAI Conference on Artificial Intelligence (AAAI 2023).
- [9] M. Hassid, H. Peng, D. Rotem, J. Kasai, I. Montero, N. A. Smith and **R. Schwartz**, *How Much Does Attention Actually Attend? Questioning the Importance of Attention in Pretrained Transformers*. Findings of the Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2022).
- [10] Y. Bitton, N. Bitton Guetta, R. Yosef, Y. Elovici, M. Bansal, G. Stanovsky, and **R. Schwartz**, *WinoGAViL: Gamified Association Benchmark to Challenge Vision-and-Language Models*. Neural Information Processing Systems Track on Datasets and Benchmarks (NeurIPS Datasets and Benchmarks 2022). **Featured presentation**.

LONG CONFERENCE PAPERS

- [11] **R. Schwartz**, and Gabriel Stanovsky. *On the Limitations of Dataset Balancing: The Lost Battle Against Spurious Correlations*. Findings of the North American Chapter of the Association of Computational Linguistics (Findings of NAACL 2022).
- [12] J. Dodge, T. Prewitt, R. Tachet des Combes, E. Odmark, **R. Schwartz**, E. Strubell, A. S. Lucioni, N. A. Smith, N. DeCario, W. Buchanan. *Measuring the Carbon Intensity of AI in Cloud instances*. The ACM Conference on Fairness, Accountability, and Transparency (FAccT 2022).
- [13] H. Peng, J. Kasai, N. Pappas, D. Yogatama, Z. Wu, L. Kong, **R. Schwartz**, and N. A. Smith. *ABC: Attention with Bounded-memory Control*. Annual Meeting of the Association of Computational Linguistics (ACL 2022).
- [14] W. Merrill, V. Ramanujan, Y. Goldberg, **R. Schwartz**, and N. A. Smith, *Parameter Norm Growth During Training of Transformers*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2021).
- [15] Y. Bitton, G. Stanovsky, M. Elhadad, and **R. Schwartz**. *Data Efficient Masked Language Modeling for Vision and Language*. Findings of the Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2021).
- [16] T. Hope, A. Amini, D. Wadden, , M. van Zuylen, S. Parasa, E. Horvitz, D. Weld, **R. Schwartz**, and H. Hajishirzi, *Extracting a knowledge base of mechanisms and effects from COVID-19 papers*. North American Chapter of the Association of Computational Linguistics (NAACL 2021).
- [17] H. Peng, N. Pappas, D. Yogatama, **R. Schwartz**, N. A. Smith, and L. Kong, *Random Feature Attention*. International Conference on Learning Representations (ICLR 2021). **Spotlight presentation**.
- [18] S. Swayamdipta, **R. Schwartz**, N. Lourie, Y. Wang, H. Hajishirzi, N. A. Smith, and Y. Choi, *Dataset Cartography: Mapping and Diagnosing Datasets with Training Dynamics*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2020).
- [19] **R. Schwartz**, G. Stanovsky, S. Swayamdipta, J. Dodge, and N. A. Smith, *The Right Tool for the Job: Matching Model and Instance Complexities*. Annual Meeting of the Association of Computational Linguistics (ACL 2020).
- [20] H. Peng, **R. Schwartz**, D. Li, and N. A. Smith, *A Mixture of $h-1$ Heads is Better than h Heads*. Annual Meeting of the Association of Computational Linguistics (ACL 2020).
- [21] W. Merrill, G. Weiss, Y. Goldberg, **R. Schwartz**, N. A. Smith, and E. Yahav, *A Formal Hierarchy of RNN Architectures*. Annual Meeting of the Association of Computational Linguistics (ACL 2020).
- [22] J. Dodge, S. Gururangan, D. Card, **R. Schwartz**, and N. A. Smith, *Show Your Work: Improved Reporting of Experimental Results*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2019).
- [23] M. E. Peters, M. Neumann, R. Logan, **R. Schwartz**, V. Joshi, S. Singh, and N. A. Smith, *Knowledge Enhanced Contextual Word Representations*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2019).
- [24] H. Peng, **R. Schwartz**, S. Thomson, and N. A. Smith, *Rational Recurrences*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2018).
- [25] R. Zellers, Y. Bisk, **R. Schwartz**, and Y. Choi, *SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2018).
- [26] **R. Schwartz**, S. Thomson, and N. A. Smith, *SoPa: Bridging CNNs, RNNs, and Weighted Finite-State Machines*. Annual Meeting of the Association of Computational Linguistics (ACL 2018).

- [27] D. Kang, W. Ammar, B. Dalvi, M. van Zuylen, S. Kohlmeier, E. Hovy, and **R. Schwartz**, *A Dataset of Peer Reviews (PeerRead): Collection, Insights and NLP Applications*. North American Chapter of the Association of Computational Linguistics (NAACL 2018).
- [28] **R. Schwartz**, M. Sap, Y. Konstas, L. Zilles, Y. Choi, and N. A. Smith, *The Effect of Different Writing Tasks on Linguistic Style: A Case Study of the ROC Story Cloze Task*. Conference on Natural Language Learning (CoNLL 2017).
- [29] I. Vulić, **R. Schwartz**, R. Reichart, A. Rappoport, and A. Korhonen, *Automatic Selection of Context Configurations for Improved (and Fast) Class-Specific Word Representations*. Conference on Natural Language Learning (CoNLL 2017).
- [30] **R. Schwartz**, R. Reichart, and A. Rappoport, *Symmetric Pattern Based Word Embeddings for Improved Word Similarity Prediction*. Conference on Natural Language Learning (CoNLL 2015).
- [31] **R. Schwartz**, R. Reichart, and A. Rappoport, *Minimally Supervised Classification to Semantic Categories Using Automatically Acquired Symmetric Patterns*. International Conference on Computational Linguistics (COLING 2014).
- [32] **R. Schwartz**, O. Tsur, A. Rappoport, and M. Koppel, *Authorship Attribution of Micro-Messages*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2013).
- [33] **R. Schwartz**, O. Abend, and A. Rappoport, *Learnability-Based Syntactic Annotation Design*. International Conference on Computational Linguistics (COLING 2012).
- [34] **R. Schwartz**, O. Abend, R. Reichart, and A. Rappoport, *Neutralizing Linguistically Problematic Annotations in Unsupervised Dependency Parsing Evaluation*. Annual Meeting of the Association of Computational Linguistics (ACL 2011).
- [35] I. Magar, and **R. Schwartz**, *Data Contamination: From Memorization to Exploitation*. Annual Meeting of the Association of Computational Linguistics (ACL 2022).
- [36] J. Dodge, S. Gururangan, D. Card, **R. Schwartz**, and N. A. Smith, *Expected Validation Performance and Estimation of a Random Variable’s Maximum*. Findings of the Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2021).
- [37] Y. Bitton, G. Stanovsky, **R. Schwartz**, and M. Elhadad, *Automatic Generation of Contrast Sets from Scene Graphs: Probing the Compositional Consistency of GQA*. North American Chapter of the Association of Computational Linguistics (NAACL 2021).
- [38] J. Dodge, **R. Schwartz**, H. Peng, and N. A. Smith, *RNN Architecture Learning with Sparse Regularization*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2019).
- [39] H. Peng, **R. Schwartz**, and N. A. Smith, *PaLM: A Hybrid Parser and Language Model*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2019).
- [40] N. Liu, **R. Schwartz**, and N. A. Smith, *Inoculation by Fine-Tuning: A Method for Analyzing Challenge Datasets*. North American Chapter of the Association of Computational Linguistics (NAACL 2019).
- [41] S. Gururangan, S. Swayamdipta, O. Levy, **R. Schwartz**, S. Bowman, and N. A. Smith, *Annotation Artifacts in Natural Language Inference Data*. North American Chapter of the Association of Computational Linguistics (NAACL 2018).
- [42] **R. Schwartz**, R. Reichart, and A. Rappoport, *Symmetric Patterns and Coordinations: Fast and Enhanced Representations of Verbs and Adjectives*. North American Chapter of the Association of Computational Linguistics (NAACL 2016).
- [43] D. Rubinstein, E. Levi, **R. Schwartz**, and A. Rappoport, *How Well Do Distributional Models Capture Different Types of Semantic Knowledge?* Annual Meeting of the Association of Computational Linguistics (ACL 2015).

- [44] J. Mamou, O. Pereg, M. Wasserblat, and **R. Schwartz**, *TangoBERT: Reducing Inference Cost by using Cascaded Architecture*. Workshop on Energy Efficient Training and Inference of Transformer Based Models (EMC² 2023).
- [45] Y. Tal, I. Magar, and **R. Schwartz**. *Fewer Errors, but More Stereotypes? The Effect of Model Size on Gender Bias*. Workshop on Gender Bias in Natural Language Processing (GeBNLP 2022).
- [46] A. Amini, T. Hope, D. Wadden, **R. Schwartz**, and H. Hajishirzi, *Extracting a knowledge base of mechanisms from COVID-19 papers*. Workshop on Natural Language Processing and Data Mining for Scientific Text (SciNLP 2020).
- [47] N. F. Liu, O. Levy, **R. Schwartz**, C. Tan, and N. A. Smith, *LSTMs Exploit Linguistic Attributes of Data*. Workshop on Representation Learning for NLP (RepL4NLP 2018). **Best paper award**.
- [48] **R. Schwartz**, M. Sap, Y. Konstas, L. Zilles, Y. Choi, and N. A. Smith, *Story Cloze Task: UW NLP System*. Workshop on Linking Models of Lexical, Sentential and Discourse-Level Semantics (LSDSem 2017). **Best performing system**.

PRE-PRINTS

- [49] J. Lee, H. Puerto, B. van Aken, Y. Arase, J. Z. Forde, L. Derczynski, A. Rücklé, I. Gurevych, **R. Schwartz**, E. Strubell, J. Dodge, *Surveying (Dis)Parities and Concerns of Compute Hungry NLP Research*. arXiv:2306.16900
- [50] M. Hassid, T. Remez, T. A. Nguyen, I. Gat, A. Conneau, F. Kreuk, J. Copet, A. Défossez, G. Synnaeve, E. Dupoux, **R. Schwartz**, Y. Adi, *Textually Pretrained Speech Language Models*. arXiv:2305.13009
- [51] N. Bitton-Guetta, Y. Bitton, J. Hessel, L. Schmidt, Y. Elovici, G. Stanovsky, and **R. Schwartz**, *Breaking Common Sense: WHOOPS! A Vision-and-Language Benchmark of Synthetic and Compositional Images*. arXiv:2303.07274
- [52] J. Dodge, G. Ilharco, **R. Schwartz**, A. Farhadi, H. Hajishirzi, and N. A. Smith, *Fine-Tuning Pre-trained Language Models: Weight Initializations, Data Orders, and Early Stopping*. arXiv:2002.06305.

Invited Talks

Green AI

Healthcare NLP Summit	04/2023
EPFL, IC colloquium	12/2022
Lancaster's Data Science Lunchtime Seminar	02/2022
International Society for Computational Biology (ISMB/ECCB 2021), <i>Computational Biology going Green</i> Session	07/2021
Sustainable AI Conference	06/2021
Microsoft, Machine Learning Seminar	04/2020

Spurious Correlations: Challenges, Solutions, and Opportunities

University of Pennsylvania, Natural Language Processing Group Seminar	03/2023
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On the Limitations of Dataset Balancing:**The Lost Battle Against Spurious Correlations**

Technion, Computational Data Science Seminar	11/2022
Tel Aviv University, Natural Language Processing Seminar	04/2022

Not all Textual Instances are Alike:**Efficient NLP by Better Understanding of our Data**

SustainNLP 2021 Workshop, Invited Speaker	11/2021
Technion, Computational Data Science Seminar	06/2021

Green NLP

Hebrew University, CS Learning Seminar	01/2021
Intel Inc. Israel, Natural Language Processing Group Seminar	01/2021
Berkeley, Natural Language Processing Group Seminar	03/2020
Stanford, Natural Language Processing Group Seminar	03/2020
Google Brain, Natural Language Processing Group Seminar	03/2020

Towards Interpretable Deep Learning for Natural Language Processing

Technion, Computer Science, Electrical Engineering, and Industrial Engineering Colloquia	12/2018
Tel Aviv University, Computer Science and Electrical Engineering Colloquia	12/2018
The Hebrew University, Computer Science Colloquium	12/2018
Weizmann Institute, Machine Learning Seminar	12/2018

Inductive Bias of Deep Networks through Language Patterns

Google Research Tel-Aviv, Machine Learning Seminar	12/2017
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Pattern-Based Solutions to Limitations of Leading Word Embeddings

University of Pennsylvania, Natural Language Processing Group Seminar	02/2016
Johns Hopkins University, Natural Language Processing Group Seminar	02/2016
University of Washington, Natural Language Processing Group Seminar	02/2016

Identifying Authorships of Very Short Texts Using Flexible Patterns

Intel Inc. Haifa, ICRI-CI Retreat	05/2014
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Semantic Representation Using Flexible Patterns

Berkeley, Natural Language Processing Group Seminar	10/2013
Stanford, Natural Language Processing Group Seminar	10/2013
USC Information Sciences Institute, Natural Language Processing Group Seminar	10/2013
Twitter Inc., Technological Talk	10/2013
Intel Inc. Santa Clara, Natural Language Processing Group Seminar	10/2013
IBM Research Tel Aviv, Machine Learning and Data Mining Group Seminar	10/2013

Professional Activities

NLP COMMUNITY INITIATIVES

Co-Organizer, German-Israeli Minerva-Gentner Symposium, “Green NLP for Understanding Complex Information”	2024
Workshop organizing committee, Workshop on Simple and Efficient Natural Language Processing (SustainNLP)	2022
Member of the committee on Efficient NLP appointed by the ACL executive committee	2021–2022
Co-Organizer, Dagstuhl Seminar on Efficient NLP	2022

SENIOR AREA CHAIR

Annual Meeting of the Association of Computational Linguistics (ACL); <i>Semantics: Sentence-level Semantics, Textual Inference, and Other Areas</i>	2023
North American Chapter of the Association of Computational Linguistics (NAACL); <i>Efficient Methods in NLP</i>	2022
North American Chapter of the Association of Computational Linguistics (NAACL); <i>Green NLP</i>	2021
European Chapter of the Association of Computational Linguistics (EACL); <i>Green and Sustainable NLP</i>	2021

AREA CHAIR

Conference on Empirical Methods in Natural Language Processing (EMNLP); Efficiency Track	2023
North American Chapter of the Association of Computational Linguistics (NAACL) industry track; <i>Ethics, Bias, and Fairness and Green NLP</i>	2022
Annual Meeting of the Association of Computational Linguistics (ACL); <i>Textual Inference and Other Areas of Semantics</i>	2019, 2020

CONFERENCE PROGRAM COMMITTEE MEMBER	International Conference on Learning Representations (ICLR)	2019–2023
	ACL Rolling Review	2021–2023
	Conference on Empirical Methods in Natural Language Processing (EMNLP)	2013, 2015–2022
	Neural Information Processing Systems (NeurIPS)	2018–2019, 2021, 2023
	Neural Information Processing Systems Track on Datasets and Benchmarks (NeurIPS Datasets and Benchmarks)	2023
	Annual Meeting of the Association of Computational Linguistics (ACL)	2013–2018, 2021
	AAAI Conference on Artificial Intelligence (AAAI)	2018, 2021
	International Conference on Machine Learning (ICML)	2019–2020
	North American Chapter of the Association of Computational Linguistics (NAACL)	2016–2019
	Conference on Natural Language Learning (CoNLL)	2016–2018
	Joint Conference on Lexical and Computational Semantics (*SEM)	2018
	European Chapter of the Association of Computational Linguistics (EACL)	2017
JOURNAL REVIEWER	Transactions of the Association for Computational Linguistics (TACL)	2019–2023
	Journal of Machine Learning Research (JMLR)	2020
	Patterns	2020
	PLOS Computational Biology	2020
	Journal of Artificial Intelligence Research (JAIR)	2017–2018
	Computational Linguistics (CL)	2018
	Natural Language Engineering (NLE)	2017
	Algorithms	2017
WORKSHOP PROGRAM COMMITTEE MEMBER	Workshop on Simple and Efficient Natural Language Processing (SustainNLP)	2020–2021
	ACL Student Research Workshop	2020
	Linking Models of Lexical, Sentential and Discourse-level Semantics (LSDSem)	2017
	Workshop on Evaluating Vector Space Representations for NLP (RepEval)	2016–2017
	NAACL-HLT Student Research Workshop	2016, 2021
	Joint Workshop on Social Dynamics and Personal Attributes in Social Media	2014
Teaching		
ONLINE COURSES	Object Oriented Programming; Israeli Council of Higher Education Program for Online Digital Learning	2021–
	Object Oriented Programming on HUJI-Coursera	2014–2020
PRIMARY LECTURER	Advanced Natural Language Processing	2023
	Efficient Natural Language Processing: Reading Papers through Role Playing	2021–2023
	Object Oriented Programming	2009–2014,
	Programming in the Perl Language	2007–2008
INVITED LECTURES	EPFL, Master’s machine learning course (CS-433).	2022
	University of Washington School of Computer Science and Engineering master’s Natural Language Processing course (CSEP 517).	2017
Professional Experience		
	Mentor, “MEET” (Middle East Education through Technology)	2008
	Software Engineer, Check Point Software Technologies LTD	2004–2005
	Course Guide, IDF “AHAM” Training Course	2003–2004
	Software Engineer, IDF Intelligence Corps	2001–2003
Technical Skills		
	Programming languages	Python, C/C++, Java, Matlab, Perl, JavaScript, tcsh/bash.
	Deep learning frameworks	PyTorch, AllenNLP.
Selected Open Source SOFTWARE		

Dataset maps
<https://github.com/allenai/cartography>

The Right Tool for the Job
<https://github.com/allenai/sledgehammer>

Show Your Work
<https://github.com/allenai/allentune>

RNN Architecture Learning with Sparse Regularization
https://github.com/dodgejesse/sparsifying_regularizers_for_RRNs

PaLM: A Hybrid Parser and Language Model
<https://github.com/Noahs-ARK/PaLM>

Inoculation by Fine-Tuning
<https://github.com/nelson-liu/inoculation-by-finetuning>

Rational recurrent neural networks
<https://github.com/Noahs-ARK/rational-recurrences>

SoPa: Soft patterns recurrent neural networks
https://github.com/Noahs-ARK/soft_patterns

Classifying documents according to their writing style
https://github.com/roys174/writing_style

DATASETS

Knowledge base of COVID-19 mechanisms
<https://github.com/AidaAmini/DyGIE-COFIE>

SWAG: A large-scale adversarial dataset for grounded commonsense inference
<https://rowanzellers.com/swag/>

A hard subset of the Stanford natural language inference dataset
https://nlp.stanford.edu/projects/snli/snli_1.0_test_hard.jsonl

A hard subset of the multi-genre natural language inference dataset
<https://www.kaggle.com/c/multinli-matched-open-hard-evaluation/>

A dataset of peer reviews (PeerRead)
<https://github.com/allenai/PeerRead>

Outreach Activities

SELECTED INVITED
TALKS

European Broadcasting Union Sustainability Summit	2021
The transdisciplinary research convention for artificial intelligence (KI-CAMP), hosted by the German federal ministry of education and research and the German informatics society	2021

RESOURCES FOR KIDS

Interview at Science News for Students	2021
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EDUCATIONAL
VOLUNTEER WORK

Instructor, Israeli Ministry of Education Instructor of math seminars to elementary school math teachers.	2013–2016
Volunteer, “Machshava Tova” NPO “Machshava Tova” aims at narrowing social gaps through technology. The position included building an Android programming course for female orthodox high school students.	2011–2013
Mentor, “Halom” Youth Center Promoting academic skills of high school students by one-on-one tutoring and mentoring.	2006–2008
Mentor and Teacher, Aldea Infantil Shelter, Puerto-Maldonado, Peru Volunteering in a shelter for children at risk. Mentoring the children and teaching English in a local high school.	2005
Mentor, “Yachdav” Program Development of mathematical and English skills of high school students by tutoring.	2001–2003

Languages

Hebrew	Native Language
English	Full Proficiency
Spanish	Advanced Level
Italian, Literary Arabic	Intermediate Level
Portuguese, Mandarin Chinese	Basic Level