

Ronan Le Bras

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Current Position	Allen Institute for Artificial Intelligence <i>Senior Research Scientist</i>	June 2016 - now
Education	Ph.D. in Computer Science Cornell University , Ithaca NY, USA Advisor: Prof. Carla P. Gomes Committee: Prof. Carla P. Gomes, Prof. Bart Selman, Prof. John E. Hopcroft Thesis: <i>Leveraging Human Insights into Problem Structure for Scientific Discovery</i>	2009 - 2016
	M.S. in Computer Engineering Ecole Polytechnique Montreal , Montreal QC, Canada Advisor: Prof. Gilles Pesant Thesis: <i>Applying Probabilistic Message-Passing Algorithms to Search Heuristics for Solving Constraint Satisfaction Problems</i> <i>*Nominated for the best 2010 University Master's Thesis*</i>	2008 - 2009
	B.Eng. in Software Engineering Ecole Polytechnique Montreal , Montreal QC, Canada <i>*Degree with highest honors*</i>	2004 - 2008
	C.P.G.E. in Mathematics and Physics Montaigne , Bordeaux, France	2001 - 2004
Research Interests	Commonsense Reasoning; Natural Language Understanding; Computational Sustainability; Combinatorial Optimization; Artificial Intelligence; Automated Reasoning; Big Data; Machine Learning; Bayesian Inference; Human Computation; Crowdsourcing	
Scholarships	Alexander Graham Bell Canada Graduate Scholarship Natural Sciences and Engineering Research Council of Canada (NSERC)	2009 - 2010
	Masters Research Scholarship Fonds québécois de la recherche sur la nature et les technologies (FQRNT)	2009 - 2010
	J.A. Desève Funds Scholarship Fonds J.A. Desève	2009
	Scholarship for excellence in Master's program Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation (CIRRELT)	2008 - 2009
	Scholarship for excellence Rotary International, The Rotary Foundation	2004
Teaching Experience	Teaching Assistant Cornell University, Department of Computer Science Head TA for the course <i>Introduction to Analysis of Algorithms</i>	Spring 2016

	Guest Lecturer Cornell University, Department of Computer Science Graduate course, <i>Topics in Computational Sustainability</i>	Spring 2013
	Teaching Assistant Cornell University, Department of Computer Science Review sessions and office hours in <i>Artificial Intelligence</i> <i>*TA Award of Excellence*</i>	Fall 2010
	Teaching Assistant University of HEC Montreal, Department of Quantitative Methods Lectures and tutorials in <i>Probability and Statistics</i>	Jan-Dec 2007
	Teaching Assistant Ecole Polytechnique Montreal, Department of Computer Science Lectures and lab sessions in <i>Computer Architecture</i> Lab sessions in <i>Programming Language (C++)</i>	Jan-Dec 2007
Research & Development Experience	Cornell University <i>Research Assistant to Prof. Carla P. Gomes</i> Research in Computational Sustainability	2009 - 2016 <i>full-time</i>
	Ecole Polytechnique Montreal <i>Research Assistant to Prof. Gilles Pesant</i> Research on constraint-centered search heuristics for combinatorial problems	Jan-Apr 2008 <i>part-time</i>
	Caisse de dépôt et placement du Québec <i>Intern, Market-risk Department</i> Improvement of market data processes; automation of financial portfolio values computation	May-Aug 2007 <i>full-time</i>
	Univoc Services Inc. <i>Scientific Programmer, R&D Department</i> Numerical designs for a speech-recognition analyzer system based on Monte-Carlo simulations; integration of numerical functions within a graphical user interface	May-Dec 2006 <i>full-time</i>
Professional Service	PC member AAAI 2011/2017/2018/2019/2020 CPAIOR 2013 IJCAI 2013/2015	
	Reviewer AAAI 2010/2011/2013-2015/2017-2022 Annals of Mathematics and Artificial Intelligence CP 2010/2011/2016 CPAIOR 2012-2014 EMNLP 2020/2022 IJCAI 2013/2015/2020 INFORMS Journal of Computing ITCAI 2010 Journal of Combinatorial Designs Journal of Machine Learning Research NAACL/NeuralGen 2019 NAACL/SemEval 2019 SAT 2013 SIAM Journal on Discrete Mathematics (SIDMA) SoCS 2013/2014	

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- [3] Jung, J., Qin, L., Welleck, S., Brahman, F., Bhagavatula, C., **Le Bras**, R., and Choi, Y. (2022). Maieutic prompting: Logically consistent reasoning with recursive explanations. *EMNLP*
- [4] Lu, X., Welleck, S., West, P., Jiang, L., Kasai, J., Khashabi, D., **Le Bras**, R., Qin, L., Yu, Y., Zellers, R., Smith, N. A., and Choi, Y. Neurologic a*esque decoding: Constrained text generation with lookahead heuristics. In *NAACL *Best Paper Award*, year=2022*
- [5] Kasai, J., Sakaguchi, K., Dunagan, L., Morrison, J., **Le Bras**, R., Choi, Y., and Smith, N. A. (2022). Transparent human evaluation for image captioning. In *NAACL*
- [6] Kasai, J., Sakaguchi, K., **Le Bras**, R., Dunagan, L., Morrison, J., Fabbri, A. R., Choi, Y., and Smith, N. A. (2022). Bidimensional leaderboards: Generate and evaluate language hand in hand. In *NAACL*
- [7] West, P., Bhagavatula, C., Hessel, J., Hwang, J. D., Jiang, L., **Le Bras**, R., Lu, X., Welleck, S., and Choi, Y. (2022). Symbolic knowledge distillation: from general language models to commonsense models. In *NAACL*
- [8] Liu, J., Liu, A., Lu, X., Welleck, S., West, P., **Le Bras**, R., Choi, Y., and Hajishirzi, H. (2022). Generated knowledge prompting for commonsense reasoning. *ACL*

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- [9] Hessel, J., Holtzman, A., Forbes, M., **Le Bras**, R., and Choi, Y. (2021). Clipscore: A reference-free evaluation metric for image captioning. *EMNLP*
- [10] Emelin, D., **Le Bras**, R., Hwang, J. D., Forbes, M., and Choi, Y. (2021). Moral stories: Situated reasoning about norms, intents, actions, and their consequences. *EMNLP*
- [11] Sakaguchi, K., Bhagavatula, C., **Le Bras**, R., Tandon, N., Clark, P., and Choi, Y. (2021). proscript: Partially ordered scripts generation via pre-trained language models. *Findings of EMNLP*
- [12] Da, J., **Le Bras**, R., Lu, X., Choi, Y., and Bosselut, A. (2021). Analyzing commonsense emergence in few-shot knowledge models. In *AKBC*
- [13] Talmor, A., Yoran, O., **Le Bras**, R., Bhagavatula, C., Goldberg, Y., Choi, Y., and Berant, J. (2021). Commonsenseqa 2.0: Exposing the limits of ai through gamification. In *NeurIPS Datasets and Benchmarks*
- [14] Lu, X., West, P., Zellers, R., **Le Bras**, R., Bhagavatula, C., and Choi, Y. (2021). Neurologic decoding: (un)supervised neural text generation with predicate logic constraints. In *NAACL*
- [15] Hwang, J. D., Bhagavatula, C., **Le Bras**, R., Da, J., Sakaguchi, K., Bosselut, A., and Choi, Y. (2021). Comet-atomic 2020: On symbolic and neural commonsense knowledge graphs. *AAAI*
- [16] Lourie, N., **Le Bras**, R., Bhagavatula, C., and Choi, Y. (2021). Unicorn on rainbow: A universal commonsense reasoning model on a new multitask benchmark. *AAAI*
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ethical judgments on 32, 000 real-life anecdotes. *AAAI*

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[2015]

[39] Zou, T., **Le Bras**, R., Salles, M., Demers, A., and Gehrke, J. (2015). Cloudia: a deployment advisor for public clouds. *The VLDB Journal, *Special Issue on the Best Papers of VLDB 2013**

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[2012]

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References

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