

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> 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> B.Eng. in Software Engineering Ecole Polytechnique Montreal , Montreal QC, Canada <i>*Degree with highest honors*</i> Prepa. Classes to the Grandes Écoles in Mathematics & Physics Lycée Montaigne , Bordeaux, France	2009 - 2016 2008 - 2009 2004 - 2008 2001 - 2004
Research Interests	Generative AI and its evaluation; Commonsense reasoning and natural language understanding; Computational methods for large-scale reasoning and combinatorial optimization; Machine learning and human-in-the-loop AI.	
Scholarships	Alexander Graham Bell Canada Graduate Scholarship Natural Sciences and Engineering Research Council of Canada (NSERC) Masters Research Scholarship Fonds québécois de la recherche sur la nature et les technologies (FQRNT) J.A. Desève Funds Scholarship Fonds J.A. Desève Scholarship for excellence in Master's program Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation (CIRRELT) Scholarship for excellence Rotary International, The Rotary Foundation	2009 - 2010 2009 - 2010 2009 2008 - 2009 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	Area Chair & Program Committee Member AAAI 2011/2017-2021 COLM 2026 CPAIOR 2013 EMNLP 2023/2026 IJCAI 2013/2015 NAACL 2024	
	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	

Publications

Conferences and Journals

[2026]

[1] Gu, Y., Tafjord, O., Kim, H., Moore, J., **Le Bras, R.**, Clark, P., and Choi, Y. (2026). SimpleToM: Exposing the gap between explicit ToM inference and implicit ToM application in LLMs. In *Proceedings of the International Conference on Learning Representations (ICLR)*

[2025]

[2] Zhao, Y., Zhang, K., Hu, T., Wu, S., **Le Bras, R.**, Anderson, T., Bragg, J., Chang, J. C., Dodge, J., Latzke, M., Liu, Y., Mcgrady, C., Tang, X., Wang, Z.-H., Zhao, C., Hajishirzi, H., Downey, D., and Cohan, A. (2025). SciArena: An open evaluation platform for foundation models in scientific literature tasks. In *NeurIPS Track on Datasets and Benchmarks*

[3] Lambert, N., Morrison, J., Pyatkin, V., Huang, S., Ivison, H., Brahman, F., Miranda, L. J. V., Liu, A., Dziri, N., Lyu, S., Gu, Y., Malik, S., Graf, V., Hwang, J. D., Yang, J., **Le Bras, R.**, Tafjord, O., Wilhelm, C., Soldaini, L., Smith, N. A., Wang, Y., Dasigi, P., and Hajishirzi, H. (2025). Tulu 3: Pushing frontiers in open language model post-training. In *Proceedings of the Conference on Language Modeling (COLM)*

[4] Zhou, X., Kim, H., Brahman, F., Jiang, L., Zhu, H., Lu, X., Xu, F., Lin, B. Y., Choi, Y., Miresghallah, N., **Le Bras, R.**, and Sap, M. (2025). HAICOSYSTEM: An ecosystem for sandboxing safety risks in human-AI interactions. In *Proceedings of the Conference on Language Modeling (COLM)*

[5] Lin, B. Y., **Le Bras, R.**, Richardson, K., Sabharwal, A., Poovendran, R., Clark, P., and Choi, Y. (2025). ZebraLogic: On the scaling limits of LLMs for logical reasoning. In *Proceedings of the International Conference on Machine Learning (ICML)*

[6] Baheti, A., Chakraborty, D., Brahman, F., **Le Bras, R.**, Lu, X., Dziri, N., Choi, Y., Riedl, M., and Sap, M. (2025). Multi-attribute constraint satisfaction via language model rewriting. *Transactions on Machine Learning Research*

[7] Lin, B. Y., Deng, Y., Chandu, K., Brahman, F., Ravichander, A., Pyatkin, V., Dziri, N., **Le Bras, R.**, and Choi, Y. (2025). WildBench: Benchmarking LLMs with challenging tasks from real users in the wild. In *Proceedings of the International Conference on Learning Representations (ICLR)*

[2024]

[8] Jiang, L., Hwang, J. D., Bhagavatula, C., **Le Bras, R.**, Liang, J., Dodge, J., Sakaguchi, K., Forbes, M., Borchardt, J., Gabriel, S., Tsvetkov, Y., Etzioni, O., Sap, M., Rini, R., and Choi, Y. (2024). An empirical investigation of machines’ capabilities for moral judgment with the Delphi experiment. *Nature Machine Intelligence*

[9] Tian, Y., Ravichander, A., Qin, L., **Le Bras, R.**, Marjeh, R., Peng, N., Choi, Y., Griffiths, T. L., and Brahman, F. (2024). MacGyver: Are large language models creative problem solvers? In *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*

[10] Baheti, A., Lu, X., Brahman, F., **Le Bras, R.**, Sap, M., and Riedl, M. (2024). Leftover lunch: Advantage-based offline reinforcement learning for language models. In *Proceedings of the International Conference on Learning Representations (ICLR)*

[11] Kasai, J., Sakaguchi, K., **Le Bras, R.**, Radev, D. R., Choi, Y., and Smith, N. A. (2024). A call for clarity in beam search: How it works and when it stops. In *Proceedings of the Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING)*

[2023]

[12] Srivastava, A., Rastogi, A., Rao, A., et al. (2023). Beyond the imitation game: Quantifying and extrapolating the capabilities of language models. *Transactions on Machine Learning Research*. ***Finalist for Outstanding Certification***

[13] Kim, H., Sclar, M., Zhou, X., **Le Bras, R.**, Kim, G., Choi, Y., and Sap, M. (2023). FANToM: A benchmark for analyzing theory of mind in conversations. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*

[14] West, P., **Le Bras, R.**, Sorensen, T., Lin, B. Y., Jiang, L., Lu, X., Chandu, K., Hessel, J., Baheti, A., Bhagavatula, C., and Choi, Y. (2023). NovaCOMET: Open commonsense foundation models with symbolic knowledge distillation. In *Findings of the Association for Computational Linguistics: EMNLP*

[15] Kim, H., Hessel, J., Jiang, L., West, P., Lu, X., Yu, Y., Zhou, P., **Le Bras, R.**, Alikhani, M., Kim, G., Sap, M., and Choi, Y. (2023). SODA: Million-scale dialogue distillation with social commonsense contextualization. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*. ***Outstanding Paper Award***

[16] Dziri, N., Lu, X., Sclar, M., Li, X. L., Jian, L., Lin, B. Y., West, P., Bhagavatula, C., **Le Bras, R.**, Hwang, J. D., Sanyal, S., Welleck, S., Ren, X., Ettinger, A., Harchaoui, Z., and Choi, Y. (2023). Faith and fate: Limits of transformers on compositionality. In *Advances in Neural Information Processing Systems (NeurIPS)*

[17] Kasai, J., Sakaguchi, K., Takahashi, Y., **Le Bras, R.**, Asai, A., Yu, X. V., Radev, D. R., Smith, N. A., Choi, Y., and Inui, K. (2023). RealTime QA: What’s the answer right now? In *NeurIPS Track on Datasets and Benchmarks*

[18] Mendelsohn, J., **Le Bras, R.**, Choi, Y., and Sap, M. (2023). From dogwhistles to bullhorns: Unveiling coded rhetoric with language models. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*

[19] Bhagavatula, C., Hwang, J. D., Downey, D., **Le Bras, R.**, Lu, X., Sakaguchi, K., Swayamdipta, S., West, P., and Choi, Y. (2023). I2D2: Inductive knowledge distillation with NeuroLogic and self-imitation. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*

[20] Santy, S., Liang, J. T., **Le Bras, R.**, Reinecke, K., and Sap, M. (2023). NLPositionality: Characterizing design biases of datasets and models. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*. ***Outstanding Paper Award***

[21] Zhou, W., **Le Bras, R.**, and Choi, Y. (2023). Modular transformers: Compressing transformers into modularized layers for flexible efficient inference. In *Findings of the Association for Computational Linguistics: ACL*

[22] Zhou, W., **Le Bras, R.**, and Choi, Y. (2023). Commonsense knowledge transfer for pre-trained language models. In *Findings of the Association for Computational Linguistics: ACL*

[23] Yu, Y., Chung, J., Yun, H., Hessel, J., Park, J., Lu, X., Ammanabrolu, P., Zellers, R., **Le Bras, R.**, Kim, G., and Choi, Y. (2023). Multimodal knowledge alignment with reinforcement learning. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*

[2022]

- [24] Sap, M., **Le Bras, R.**, Fried, D., and Choi, Y. (2022). Neural theory-of-mind? on the limits of social intelligence in large lms. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [25] Kasai, J., Sakaguchi, K., **Le Bras, R.**, Peng, H., Lu, X., Radev, D., Choi, Y., and Smith, N. A. (2022). Twist decoding: Diverse generators guide each other. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [26] 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. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [27] 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. (2022). Neurologic a*esque decoding: Constrained text generation with lookahead heuristics. In *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*. ***Best Paper Award***
- [28] 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 *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*
- [29] 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 *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*
- [30] 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 *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*
- [31] 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. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*

[2021]

- [32] Hessel, J., Holtzman, A., Forbes, M., **Le Bras, R.**, and Choi, Y. (2021). Clip-score: A reference-free evaluation metric for image captioning. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [33] 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. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [34] Sakaguchi, K., Bhagavatula, C., **Le Bras, R.**, Tandon, N., Clark, P., and Choi, Y. (2021). prosript: Partially ordered scripts generation via pre-trained language models. In *Findings of the Association for Computational Linguistics: EMNLP*
- [35] Da, J., **Le Bras, R.**, Lu, X., Choi, Y., and Bosselut, A. (2021). Analyzing commonsense emergence in few-shot knowledge models. In *Proceedings of the Conference on Automated Knowledge Base Construction (AKBC)*
- [36] 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 Track on Datasets and Benchmarks*

- [37] 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 *Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*
- [38] 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. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*
- [39] Lourie, N., **Le Bras, R.**, Bhagavatula, C., and Choi, Y. (2021). Unicorn on rainbow: A universal commonsense reasoning model on a new multitask benchmark. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*
- [40] Lourie, N., **Le Bras, R.**, and Choi, Y. (2021). Scruples: A corpus of community ethical judgments on 32, 000 real-life anecdotes. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*
- [41] Bosselut, A., **Le Bras, R.**, and Choi, Y. (2021). Dynamic neuro-symbolic knowledge graph construction for zero-shot commonsense question answering. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*
- [42] Gabriel, S., Bhagavatula, C., Schwartz, V., **Le Bras, R.**, Forbes, M., and Choi, Y. (2021). Paragraph-level commonsense transformers with recurrent memory. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*
- [2020]**
- [43] Schwartz, V., West, P., **Le Bras, R.**, Bhagavatula, C., and Choi, Y. (2020). Unsupervised commonsense question answering with self-talk. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [44] Qin, L., Schwartz, V., West, P., Bhagavatula, C., Hwang, J. D., **Le Bras, R.**, Bosselut, A., and Choi, Y. (2020). Back to the future: Unsupervised backprop-based decoding for counterfactual and abductive commonsense reasoning. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*
- [45] Rudinger, R., Schwartz, V., Hwang, J. D., Bhagavatula, C., Forbes, M., **Le Bras, R.**, Smith, N., and Choi, Y. (2020). Thinking like a skeptic: Defeasible inference in natural language. In *Findings of the Association for Computational Linguistics: EMNLP*
- [46] Marasović, A., Bhagavatula, C., Park, J., **Le Bras, R.**, Smith, N. A., and Choi, Y. (2020). Natural language rationales with full-stack visual reasoning: From pixels to semantic frames to commonsense graphs. In *Findings of the Association for Computational Linguistics: EMNLP*
- [47] Yang, Y., Malaviya, C., Fernandez, J., Swayamdipta, S., **Le Bras, R.**, Wang, J., Bhagavatula, C., Choi, Y., and Downey, D. (2020). Generative data augmentation for commonsense reasoning. In *Findings of the Association for Computational Linguistics: EMNLP*
- [48] **Le Bras, R.**, Swayamdipta, S., Bhagavatula, C., Zellers, R., Peters, M. E., Sabharwal, A., and Choi, Y. (2020). Adversarial filters of dataset biases. In *Proceedings of the International Conference on Machine Learning (ICML)*
- [49] Bhagavatula, C., **Le Bras, R.**, Malaviya, C., Sakaguchi, K., Holtzman, A., Rashkin, H., Downey, D., Yih, S. W.-t., and Choi, Y. (2020). Abductive commonsense reasoning. In *Proceedings of the International Conference on Learning Representations (ICLR)*
- [50] Jensen, N., Lyons, E., Chebelyon, E., **Le Bras, R.**, and Gomes, C. (2020). Conspicuous monitoring and remote work. *Journal of Economic Behavior and Organization*

[51] Sakaguchi, K., **Le Bras, R.**, Bhagavatula, C., and Choi, Y. (2020). Winogrande: An adversarial winograd schema challenge at scale. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*. **Outstanding Paper Award**

[52] Bisk, Y., Zellers, R., **Le Bras, R.**, Gao, J., and Choi, Y. (2020). Piqa: Reasoning about physical commonsense in natural language. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*

[2019]

[53] Sap, M., Rashkin, H., Chen, D., **Le Bras, R.**, and Choi, Y. (2019). Social iqa: Commonsense reasoning about social interactions. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*

[54] Huang, L., **Le Bras, R.**, Bhagavatula, C., and Choi, Y. (2019). Cosmos qa: Machine reading comprehension with contextual commonsense reasoning. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*

[55] Hopkins, M., **Le Bras, R.**, Petrescu-Prahova, C., Stanovsky, G., Hajishirzi, H., and Koncel-Kedziorski, R. (2019). Semeval-2019 task 10: Math question answering. In *Proceedings of the Workshop on Semantic Evaluation (SemEval)*

[2018]

[56] Sap, M., **Le Bras, R.**, Allaway, E., Bhagavatula, C., Lourie, N., Rashkin, H., Roof, B., Smith, N. A., and Choi, Y. (2018). Atomic: An atlas of machine commonsense for if-then reasoning. In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*

[2017]

[57] Hopkins, M., Petrescu-Prahova, C., Levin, R., **Le Bras, R.**, Herrasti, A., and Joshi, V. (2017). Beyond sentential semantic parsing: Tackling the math sat with a cascade of tree transducers. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP)*

[58] Xue, Y., Bai, J., **Le Bras, R.**, Rappazzo, B., Bernstein, R., Bjorck, J., Longpre, L., Suram, S. K., van Dover, R. B., Gregoire, J., et al. (2017). Phase-mapper: An AI platform to accelerate high throughput materials discovery. In *Proceedings of the 29th Conference on Innovative Applications of Artificial Intelligence (IAAI)*. **IAAI Innovative Application Award**

[59] Diaz, M., **Le Bras, R.**, and Gomes, C. P. (2017). In search of balance: The challenge of generating balanced latin rectangles. In *Proceedings of the Fourteenth International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming (CPAIOR)*

[60] Suram, S. K., Xue, Y., Bai, J., **Le Bras, R.**, Rappazzo, B., Bernstein, R., Bjorck, J., Zhou, L., van Dover, R. B., Gomes, C. P., et al. (2016). Automated phase mapping with agilefd and its application to light absorber discovery in the V–Mn–Nb oxide system. *ACS Combinatorial Science*

[2016]

[61] Xue, Y., Ermon, S., **Le Bras, R.**, Gomes, C. P., and Selman, B. (2016). Variable elimination in the fourier domain. In *Proceedings of the 33rd International Conference on Machine Learning (ICML)*

[2015]

[62] 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**

[63] Ermon, S., **Le Bras, R.**, Suram, S. K., Gregoire, J. M., Gomes, C. P., Selman, B., and van Dover, R. B. (2015). Pattern decomposition with complex combinatorial constraints: Application to materials discovery. In *Proceedings of the 29th Conference on Artificial Intelligence (AAAI)*

[2014]

[64] **Le Bras, R.**, Xue, Y., Bernstein, R., Gomes, C. P., and Selman, B. (2014). A human computation framework for boosting combinatorial solvers. In *Proceedings of the 2nd AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*

[65] **Le Bras, R.**, Gomes, C. P., and Selman, B. (2014). On the erdos discrepancy problem. In *Proceedings of the 20th International Conference on Principles and Practice of Constraint Programming (CP)*

[66] **Le Bras, R.**, Bernstein, R., Gregoire, J. M., Suram, S. K., Gomes, C. P., Selman, B., and van Dover, R. B. (2014). A computational challenge problem in materials discovery: Synthetic problem generator and real-world datasets. In *Proceedings of the 28th Conference on Artificial Intelligence (AAAI)*

[2013]

[67] **Le Bras, R.**, Bernstein, R., Gomes, C. P., and Selman, B. (2013). Crowdsourcing backdoor identification for combinatorial optimization. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*

[68] **Le Bras, R.**, Gomes, C. P., and Selman, B. (2013). Double-wheel graphs are graceful. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI)*

[69] Zou, T., **Le Bras, R.**, Salles, M. V., Demers, A., and Gehrke, J. (2013). Cloudia: a deployment advisor for public clouds. In *Proceedings of the 39th International Conference on Very Large Data Bases (VLDB)*

[70] **Le Bras, R.**, Dilkina, B., Xue, Y., Gomes, C. P., McKelvey, K. S., Montgomery, C., and Schwartz, M. K. (2013). Robust network design for multispecies conservation. In *Proceedings of the 16th Conference on Artificial Intelligence (AAAI)*

[71] Dilkina, B., Gomes, C. P., Lai, K., **Le Bras, R.**, McKelvey, K. S., Sabharwal, A., Schwartz, M. K., Suter, J., and Xue, Y. (2013). Large conservation landscape - synthetic and real-world datasets. In *Proceedings of the 16th Conference on Artificial Intelligence (AAAI)*

[72] Finger, M., **Le Bras, R.**, Gomes, C. P., and Selman, B. (2013). Solutions for hard and soft constraints using optimized probabilistic satisfiability. In *Proceedings of the 16th International Conference on Theory and Applications of Satisfiability Testing (SAT)*

[2012]

[73] **Le Bras, R.**, Gomes, C. P., and Selman, B. (2012). From streamlined combinatorial search to efficient constructive procedures. In *Proceedings of the 15th Conference on Artificial Intelligence (AAAI)*

[74] **Le Bras, R.**, Ermon, S., Damoulas, T., Bernstein, R., Gomes, C., Selman, B., and van Dover, R. B. (2012). Materials discovery: New opportunities at the intersection of constraint reasoning and learning. In *Proceedings of the International Conference on Computational Sustainability (CompSust)*

[75] Ermon, S., **Le Bras, R.**, Gomes, C. P., Selman, B., and van Dover, R. B. (2012). Smt-aided combinatorial materials discovery. In *Proceedings of the 15th International Conference on Theory and Applications of Satisfiability Testing (SAT)*

[2011]

[76] **Le Bras, R.**, Damoulas, T., Gregoire, J. M., Sabharwal, A., Gomes, C. P., and van Dover, R. B. (2011). Constraint reasoning and kernel clustering for pattern decomposition with scaling. In *Proceedings of the 17th International Conference on Principles and Practice of Constraint Programming (CP)*

[2009]

[77] **Le Bras, R.**, Zanarini, A., and Pesant, G. (2009). Efficient generic search heuristics within the embp framework. In *Proceedings of the 15th International Conference on Principles and Practice of Constraint Programming (CP)*

Workshops

[2012]

[78] **Le Bras, R.**, Bernstein, R., Gomes, C. P., Selman, B., and van Dover, R. B. (2012). Human computation for combinatorial materials discovery. In *Proceedings of the Human Computation for Science and Computational Sustainability NIPS Workshop (HCSCS)*

[2010]

[79] **Le Bras, R.**, Damoulas, T., Gregoire, J. M., Sabharwal, A., Gomes, C. P., and van Dover, R. B. (2010). Computational thinking for material discovery: Bridging constraint reasoning and learning. In *Proceedings of the 2nd International Workshop on Constraint Reasoning and Optimization for Computational Sustainability (CROCS)*

Technical Reports

[2012]

[80] **Le Bras, R.**, Perrault, A., and Gomes, C. (2012). Polynomial time construction for spatially balanced latin squares. Technical report, <http://hdl.handle.net/1813/28697>, “eCommons Cornell University”

References

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