

Chris J. Maddison

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Academic	DPhil. Department of Statistics, University of Oxford <i>Supervisor:</i> Yee Whye Teh & Arnaud Doucet	2016–present
	MSc. Department of Computer Science, University of Toronto <i>Supervisor:</i> Geoffrey Hinton <i>Specialization:</i> Machine Learning <i>Thesis:</i> A* Sampling	2012–2014
	H. BSc. Department of Computer Science, University of Toronto <i>Specialization:</i> Computer Science & Statistics	2007–2012
Professional	Research Scientist , Google DeepMind, London, UK	2016–present
	Intern , Google DeepMind, London, UK <i>Supervisor:</i> David Silver <ul style="list-style-type: none">• Neural network components for AlphaGo.	2014–2015
	Intern , Google Brain, Mountain View, USA <i>Supervisor:</i> Ilya Sutskever <ul style="list-style-type: none">• move evaluation in Go using neural networks.	Summer 2014
	Intern , Microsoft Research, Cambridge, UK <i>Supervisor:</i> Daniel Tarlow <ul style="list-style-type: none">• developed generative models of natural source code.	Summer 2013
	Research Assistant , University of Toronto, Toronto, Canada <i>Supervisor:</i> Geoffrey Hinton <ul style="list-style-type: none">• developed sequence models and pre-training for recurrent neural networks.	Summer 2011
	Research Assistant , UCSD, San Diego, USA <i>Supervisor:</i> Timothy Gentner <ul style="list-style-type: none">• conducted a neuro-anatomical experiment on European starlings.	Summer 2010
	Research Assistant , UBC, Vancouver, Canada <i>Supervisor:</i> Kiran Soma <ul style="list-style-type: none">• designed and conducted a study of the soft song behaviour of song sparrows.	Summer 2009
Scholarships, Fellowships, & Awards	<ul style="list-style-type: none">• Google DeepMind Award (GBP 150,000) 2016–2020• Best Paper Award – Neural Information Processing Systems (NIPS) 2014• Junior Fellow – Massey College, Toronto 2012–2015• NSERC Postgraduate Scholarship – Doctoral (CAD 63,000) 2014–2017• NSERC Canada Graduate Scholarship – Master's (CAD 17,500) 2012–2013	

- The Prince Phillip Silver Medal 2012
- Dean’s List Scholar 2012
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- NSERC Undergraduate Student Research Award (CAD 4,500) 2011
- University of Toronto Scholar (CAD 1,500) 2011
- University of Toronto Scholar (CAD 1,500) 2010
- Ron Wilson Student Achievement Award (CAD 250) 2010
- Milne Research Award (CAD 2,000) 2010
- Canada Millennium Scholarship Foundation’s National In-course Excellence Award (CAD 4,500) 2009
- NSERC Undergraduate Student Research Award (CAD 4,500) 2009
- The Dr. John Knowles Colling Memorial Scholarship (CAD 430) 2008

Teaching **Teaching Assistant**, University of Toronto, Toronto, Canada

- CSC321 - Introduction to Neural Networks Winter 2014
- CSC108 - Introduction to Computer Programming Winter 2013
- CSC148 - Introduction to Computer Science Winter 2012

Service Conference reviewer for

- Neural Information Processing Systems (NIPS)
- International Conference on Machine Learning (ICML)
- International Conference on Learning Representations (ICLR)
- International Conference on Artificial Intelligence and Statistics (AISTATS)

Invited Talks

- “A* Sampling”. ANC Seminar, University of Edinburgh. 11 May 2014
- “A* Sampling”. ML @ CUED Seminar, University of Cambridge. 24 Feb. 2014
- “A* Sampling”. NIPS Conference Track Oral, Montreal. 9 Dec. 2014
- “Annealing Between Distributions by Averaging Moments”. ML @ CUED Seminar, University of Cambridge. 2 Aug. 2013

Refereed Publications

- [1] D. Silver, A. Huang, C. J. Maddison, A. Guez, L. Sifre, G. van den Driessche, J. Schrittwieser, I. Antonoglou, V. Panneershelvam, M. Lanctot, S. Dieleman, D. Grewe, J. Nham, N. Kalchbrenner, I. Sutskever, T. Lillicrap, M. Leach, K. Kavukcuoglu, T. Graepel, and D. Hassabis. Mastering the game of Go with deep neural networks and tree search. *Nature*, 529(7587):484–489, 01 2016.
- [2] C. J. Maddison, A. Huang, I. Sutskever, and D. Silver. Move Evaluation in Go Using Deep Convolutional Neural Networks. In *International Conference on Learning Representations*. 2015.
- [3] C. J. Maddison, D. Tarlow, and T. Minka. A* Sampling. In *Advances in Neural Information Processing Systems 27*. 2014.
- [4] C. J. Maddison and D. Tarlow. Structured Generative Models of Natural Source Code. In *Proceedings of the 31st International Conference on Machine Learning*. 2014.
- [5] R. Grosse, C. J. Maddison, and R. Salakhutdinov. Annealing Between Distributions by Averaging Moments. In *Advances in Neural Information Processing Systems 26*. 2013.

- [6] C. J. Maddison, R. C. Anderson, N. H. Prior, M. D. Taves, and K. K. Soma. Soft song during aggressive interactions: Seasonal changes and endocrine correlates in song sparrows. *Hormones and Behavior*, 62(4):455 – 463, 2012.
- [7] S. A. Heimovics, N. H. Prior, C. J. Maddison, and K. K. Soma. Rapid and Widespread Effects of 17-beta-estradiol on Intracellular Signaling in the Male Songbird Brain: A Seasonal Comparison. *Endocrinology*, 153(3):1364–1376, 2012.