

- Alain, G. and Y. Bengio (2016). Understanding intermediate layers using linear classifier probes. *arXiv preprint arXiv:1610.01644*.
- Azaria, A. and T. Mitchell (2023). The internal state of an llm knows when it’s lying.
- Bai, Y., S. Kadavath, S. Kundu, A. Askell, J. Kernion, A. Jones, A. Chen, A. Goldie, A. Mirhoseini, C. McKinnon, et al. (2022). Constitutional ai: Harmlessness from ai feedback. *arXiv preprint arXiv:2212.08073*.
- Bender, E. M., T. Gebru, A. McMillan-Major, and S. Shmitchell (2021). On the dangers of stochastic parrots: Can language models be too big? In *Proceedings of the 2021 ACM conference on fairness, accountability, and transparency*, pp. 610–623.
- Bender, E. M. and A. Koller (2020). Climbing towards nlu: On meaning, form, and understanding in the age of data. In *Proceedings of the 58th annual meeting of the association for computational linguistics*, pp. 5185–5198.
- Bricken, T., A. Templeton, J. Batson, B. Chen, A. Jermyn, T. Conerly, N. Turner, C. Anil, C. Denison, A. Askell, R. Lasenby, Y. Wu, S. Kravec, N. Schiefer, T. Maxwell, N. Joseph, Z. Hatfield-Dodds, A. Tamkin, K. Nguyen, B. McLean, J. E. Burke, T. Hume, S. Carter, T. Henighan, and C. Olah (2023). Towards monosemanticity: Decomposing language models with dictionary learning. *Transformer Circuits Thread*. <https://transformer-circuits.pub/2023/monosemantic-features/index.html>.
- Brier, G. W. (1950). Verification of forecasts expressed in terms of probability. *Monthly weather review* 78(1), 1–3.
- Bubeck, S., V. Chandrasekaran, R. Eldan, J. Gehrke, E. Horvitz, E. Kamar, P. Lee, Y. T. Lee, Y. Li, S. Lundberg, H. Nori, H. Palangi, M. T. Ribeiro, and Y. Zhang (2023). Sparks of artificial general intelligence: Early experiments with gpt-4.
- Burns, C., H. Ye, D. Klein, and J. Steinhardt (2022). Discovering latent knowledge in language models without supervision.
- Campbell, J., R. Ren, and P. Guo (2023). Localizing lying in llama: Understanding instructed dishonesty on true-false questions through prompting, probing, and patching.
- Christensen, D. (1991). Clever bookies and coherent beliefs. *The Philosophical Review* 100(2), 229–247.
- Christiano, P. F., J. Leike, T. Brown, M. Martic, S. Legg, and D. Amodei (2017). Deep reinforcement learning from human preferences. *Advances in neural information processing systems* 30.
- Cox, R. T. (1946). Probability, frequency and reasonable expectation. *American journal of physics* 14(1), 1–13.
- Cunningham, H., A. Ewart, L. Riggs, R. Huben, and L. Sharkey (2023). Sparse autoencoders find highly interpretable features in language models. *arXiv preprint arXiv:2309.08600*.

- Dafoe, A., E. Hughes, Y. Bachrach, T. Collins, K. R. McKee, J. Z. Leibo, K. Larson, and T. Graepel (2020). Open problems in cooperative ai. *arXiv preprint arXiv:2012.08630*.
- Davidson, D. (1970). Mental events. In L. Foster and J. W. Swanson (Eds.), *Experience and Theory*, pp. 79–101. Humanities Press.
- Davidson, D. (1973). Radical interpretation. *Dialectica* 27(3/4), 313–328.
- Davidson, D. (1974). On the very idea of a conceptual scheme. In *Proceedings and addresses of the American Philosophical Association*, Volume 47, pp. 5–20.
- De Finetti, B. (1937). La prévision: ses lois logiques, ses sources subjectives. In *Annales de l'institut Henri Poincaré*, Volume 7, pp. 1–68.
- Dong, Q., L. Li, D. Dai, C. Zheng, Z. Wu, B. Chang, X. Sun, J. Xu, and Z. Sui (2022). A survey on in-context learning. *arXiv preprint arXiv:2301.00234*.
- Donoho, D. L. (2006). Compressed sensing. *IEEE Transactions on information theory* 52(4), 1289–1306.
- Elhage, N., T. Hume, C. Olsson, N. Schiefer, T. Henighan, S. Kravec, Z. Hatfield-Dodds, R. Lasenby, D. Drain, C. Chen, et al. (2022). Toy models of superposition. *arXiv preprint arXiv:2209.10652*.
- Evans, O., O. Cotton-Barratt, L. Finnveden, A. Bales, A. Balwit, P. Wills, L. Righetti, and W. Saunders (2021). Truthful ai: Developing and governing ai that does not lie. *arXiv preprint arXiv:2110.06674*.
- Farquhar, S., V. Varma, Z. Kenton, J. Gasteiger, V. Mikulik, and R. Shah (2023). Challenges with unsupervised llm knowledge discovery. *arXiv preprint arXiv:2312.10029*.
- Gneiting, T. and A. E. Raftery (2007). Strictly proper scoring rules, prediction, and estimation. *Journal of the American statistical Association* 102(477), 359–378.
- Grote, T. (2021). Trustworthy medical ai systems need to know when they don't know. *Journal of medical ethics* 47(5), 337–338.
- Grote, T. (2023). The allure of simplicity: On interpretable machine learning models in healthcare. *Philosophy of Medicine* 4(1).
- Hammond, P. J. (1988). Consequentialist foundations for expected utility. *Theory and decision* 25, 25–78.
- Harding, J. (2023). Operationalising representation in natural language processing. *arXiv preprint arXiv:2306.08193*.
- Hedden, B. (2015). *Reasons without persons: Rationality, identity, and time*. OUP Oxford.
- Ibeling, D., T. Icard, K. Mierzewski, and M. Mossé (2023). Probing the quantitative–qualitative divide in probabilistic reasoning. *Annals of Pure and Applied Logic*, 103339.
- Jeffrey, R. C. (1990). *The logic of decision*. University of Chicago press.
- Joyce, J. M. (1998). A nonpragmatic vindication of probabilism. *Philosophy of Science* 65(4), 575–603.

- Kundu, S., Y. Bai, S. Kadavath, A. Askell, A. Callahan, A. Chen, A. Goldie, A. Balwit, A. Mirhoseini, B. McLean, et al. (2023). Specific versus general principles for constitutional ai. *arXiv preprint arXiv:2310.13798*.
- Leitgeb, H. (2017). *The stability of belief: How rational belief coheres with probability*. Oxford University Press.
- Levinstein, B. A. and D. A. Herrmann (2024). Still no lie detector for language models: Probing empirical and conceptual roadblocks. *Philosophical Studies*, 1–27.
- Lewis, D. (1974). Radical interpretation. *Synthese*, 331–344.
- Li, K., A. K. Hopkins, D. Bau, F. Viégas, H. Pfister, and M. Wattenberg (2023). Emergent world representations: Exploring a sequence model trained on a synthetic task.
- Li, K., O. Patel, F. Viégas, H. Pfister, and M. Wattenberg (2023). Inference-time intervention: Eliciting truthful answers from a language model.
- Mandelkern, M. and T. Linzen (2023). Do language models refer? *arXiv preprint arXiv:2308.05576*.
- Marks, S. and M. Tegmark (2023). The geometry of truth: Emergent linear structure in large language model representations of true/false datasets.
- Nanda, N., L. Chan, T. Lieberum, J. Smith, and J. Steinhardt (2023). Progress measures for grokking via mechanistic interpretability. *arXiv preprint arXiv:2301.05217*.
- Nanda, N., A. Lee, and M. Wattenberg (2023). Emergent linear representations in world models of self-supervised sequence models. *arXiv preprint arXiv:2309.00941*.
- Olsson, C., N. Elhage, N. Nanda, N. Joseph, N. DasSarma, T. Henighan, B. Mann, A. Askell, Y. Bai, A. Chen, T. Conerly, D. Drain, D. Ganguli, Z. Hatfield-Dodds, D. Hernandez, S. Johnston, A. Jones, J. Kernion, L. Lovitt, K. Ndousse, D. Amodei, T. Brown, J. Clark, J. Kaplan, S. McCandlish, and C. Olah (2022). In-context learning and induction heads. *Transformer Circuits Thread*. <https://transformer-circuits.pub/2022/in-context-learning-and-induction-heads/index.html>.
- Ouyang, L., J. Wu, X. Jiang, D. Almeida, C. Wainwright, P. Mishkin, C. Zhang, S. Agarwal, K. Slama, A. Ray, et al. (2022). Training language models to follow instructions with human feedback. *Advances in neural information processing systems* 35, 27730–27744.
- Park, P. S., S. Goldstein, A. O’Gara, M. Chen, and D. Hendrycks (2024). Ai deception: A survey of examples, risks, and potential solutions. *Patterns* 5(5).
- Patel, R. and E. Pavlick (2021). Mapping language models to grounded conceptual spaces. In *International conference on learning representations*.
- Pavlick, E. (2023). Symbols and grounding in large language models. *Philosophical Transactions of the Royal Society A* 381(2251), 20220041.
- Pettigrew, R. (2016). *Accuracy and the Laws of Credence*. Oxford University Press.