



École thématique de la SPS-IHPST

« L'objectivité dans les sciences »

10 - 15 septembre 2023, Villa Clythia



Liste des lectures

Planning

Lundi 11

L'objectivité dans les sciences (Denis Forest, Thierry Hoquet)

- Daston (Lorraine) et Galison (Peter), 2007. *Objectivité*. Traduction, Les Presses du réel. -
- M. Gibbons et al., 2022, Motivational trade-offs and modulation of pain in bumblebees, *Proceedings of the National Academy of Science*, 119/31, doi/full/10.1073/pnas.2205821119
- Elizabeth Fee, « Is feminism a threat to scientific objectivity? », *International Journal of Women's Studies*, 4-4 (1981), pp. 378-392.
- Sandra Harding, "Strong Objectivity": A Response to the New Objectivity Question, *Synthese*, Vol. 104, No. 3, *Feminism and Science* (Sep., 1995), pp. 331-349.
- Sandra Harding, *Rethinking Standpoint Epistemology. What is "Strong Objectivity"?*, In Alcoff & Potter, *Feminist epistemologies*, Routledge, 1993, pp. 49-82.

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Mardi 12

Objectivité et intelligence artificielle (Carina Prunkl et Mehdi Khamassi)

- Carina's recent paper where she emphasizes the distinction between authenticity and agency: <https://www.nature.com/articles/s42256-022-00449-9>
- A paper about whether algorithms are (more?) objective/value-free: <https://philpapers.org/archive/JOHAAV.pdf>
- Mehdi's paper which introduces to reinforcement learning and decision-making algorithms, at the crossroads between robotics, AI, psychology and neuroscience: https://hal.science/hal-03277525/file/Khamassi2020-TPNC_preprint.pdf
- The following short editorial article which gives an overview of current research in so-called "intrinsically

motivated open-ended learning autonomous

robots": <https://www.frontiersin.org/articles/10.3389/fnbot.2019.00115/full>

Table-ronde : L'objectivité dans les sciences biomédicales (Alexandra Soulier, Lucie Laplane)

- Longino, H. E. (2019). *Studying human behavior: How scientists investigate aggression and sexuality*. University of Chicago Press.

- Longino, H. E. (1990). *Science as social knowledge: Values and objectivity in scientific inquiry*. Princeton university press.

- Plutynski, A. (2021). The Cancer Genome Atlas Project: Natural History, Experiment, or Something In-Between?

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Mercredi 13

Objectivité et sciences du climat (Julie Jebeile et Roland Seferian)

- Pulkkinen, K., Undorf, S., Bender, F., Wikman-Svahn, P., Doblus-Reyes, F., Flynn, C., ... & Thompson, E. (2022). The value of values in climate science. *Nature Climate Change*, 12(1), 4-6.

- Jones, C. D. (2020). So what is in an earth system model?. *Journal of Advances in Modeling Earth Systems*, 12(2), e2019MS001967.

- Deux textes "vulgarisés" de CarbonBrief:

<https://www.carbonbrief.org/qa-how-do-climate-models-work/>

<https://www.carbonbrief.org/guest-post-how-not-to-interpret-the-emissions-scenarios-in-the-ipcc-report/>

Table-ronde : Objectivité et mesure en physique (Nadine de Courtenay et Julien Tricard)

- N. de Courtenay and F. Grégis (2017). The evaluation of measurement uncertainties and its epistemological ramifications, *Studies in history and philosophy of science A* 65-66, 22-32.

- N. De Courtenay (2022). On the philosophical significance of the reform of the international system of units: a double-adjustment account of scientific enquiry, *Perspectives on science* 30(4), 549-620.

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Jeudi 14

Objectivité et Médecine (Vincent Israel-Jost et Cyrille Blondet)

- Berg, M. (1997). Problems and promises of the protocol. *Social science & medicine*, 44(8), 1081-1088.
- Cambrosio, A., Keating, P., Schlich, T., & Weisz, G. (2006). Regulatory objectivity and the generation and management of evidence in medicine. *Social science & medicine*, 63(1), 189-199.
- Tippawan Liabsuetrakul, Thanitha Sirirak, Sathana Boonyapipat and Panumad Pornsawat, "Effect of continuous education for evidence-based medicine practice on knowledge, attitudes and skills of medical students", *Journal of Evaluation in Clinical Practice*, 19(4), 2013.

