

## PHILOSOPHY

### A. Philosophy of Language

- **Mandatory:** Speaks, J. "Theories of Meaning", *The Stanford Encyclopedia of Philosophy* (Winter 2025 Edition), Edward N. Zalta & Uri Nodelman (eds.), URL = <https://plato.stanford.edu/archives/win2025/entries/meaning/>.
- **Optional:**
  - Millière, R., & Buckner, C. (2024). *A philosophical introduction to language models—Part I: Continuity with classic debates* (arXiv:2401.03910). arXiv. <https://arxiv.org/abs/2401.03910>
  - Pepp, J. (2025). Reference without intentions in large language models. *Inquiry*, 1–19. <https://doi.org/10.1080/0020174X.2024.2448482>

### B. Philosophy of Mind

- **Mandatory:** Levin, J. (2023) *The Metaphysics of Mind*, Cambridge: Cambridge University Press
- **Optional:** Chalmers, D. (2023). "Could a Large Language Model be Conscious?" <https://arxiv.org/pdf/2303.07103>

### C. Ethics and Law

- **Mandatory:** Justin B. Bullock, Yu-Che Chen (eds.), *The Oxford Handbook of AI Governance*, Oxford, Oxford University Press, 2024 (chap. 1: "AI Governance: Overview and Theoretical Lenses")
- **Optional:** Dignum, V. (2026). *AI Paradox: How to Make Sense of a Complex Future*, Princeton, Princeton University Press, 2026 (chap. 5 "The Regulation Paradox")

## PSYCHOLOGY

### A. Neural cognition

- **Mandatory:** Stanislas Dehaene. *How we learn*. Penguin 2020 Chapters 1,2,4,5.
- **Optional:** Tarasi L, di Pellegrino G, Romei V. Are you an empiricist or a believer? Neural signatures of predictive strategies in humans. *Prog Neurobiol.* 2022 Dec;219:102367. doi: 10.1016/j.pneurobio.2022.102367.

### B. Statistics

- **Mandatory:** A.A.V.V. (2025) *Learning Statistics with JASP* <https://learnstatswithjasp.com/>. capitoli 1,2,4,5,6.
- **Optional:** *Advanced statistics for psychology*. Bologna University Press. <https://doi.org/10.30682/9791254777558>

### C. Human Machine-Interaction

- **Mandatory:** Hermann, E., Puntoni, S., & Morewedge, C. K. (2025). GenAI and the psychology of work. *Trends in Cognitive Sciences*, 10.1016/j.tics.2025.04.009
- **Optional:** Quaresma, M., Soares, M. M., & Correia, M. (2022). UX Concepts and Perspectives–From Usability to User-Experience Design. In *Handbook of Usability and User-Experience* (pp. 3-16). CRC Press.

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## General Reading List (optional readings)

### HUMAN-MACHINE INTERACTION (applicative)

-Benvenuti, M., Cangelosi, A., Weinberger, A., Mazzoni, E., Benassi, M., Barbaresi, M., & Orsoni, M. (2023). Artificial intelligence and human behavioral development: A perspective on new skills and competences acquisition for the educational context. *Computers in Human Behavior*, 148, 107903. <https://www.sciencedirect.com/science/article/pii/S0747563223002546>

-Mazzoni, E., Benvenuti, M., & Benassi, M. (2025). Reframing AI In Education: A Vygotskian Perspective On Proximal Development. *International Journal of Arts, Humanities & Social Science*, 6(Special Issue), 7-13. <https://ijahss.net/assets/files/1755369949.pdf>

[Il volume è disponibile gratuitamente online al seguente link: https://learnstatswithjasp.com/.](https://learnstatswithjasp.com/)  
[L'indicazione sarebbe di leggere i capitoli 1, 2, 4, 5 e 6.](#)

### INFORMATICS

- Bell, T., Tymann, P., and Yehudai, A. The Big Ideas of K–12 Computer Science Education (web document). <https://www.csse.canterbury.ac.nz/big-ideas/BigIdeas-webdocument-15-Feb-2021.pdf> A concise and accessible overview of the major conceptual foundations of computer science, useful for viewing informatics as a scientific discipline and for discovering its “big ideas.”

- From Python for Everybody, Charles R. Severance. PY4E / University of Michigan – <https://www.py4e.com/html3/01-intro>

- Chapter 1: Introduction A short and beginner-friendly introduction to programming in Python, motivating why learning to write programs matters before moving to technical details.

- From Computer Science Field Guide. Computer Science Education Research Group, University of Canterbury – <https://www.csfieldguide.org.nz/en/chapters/>

- Chapter 2: Algorithms

- Chapter 3: Programming Languages

· Chapter 5: Data Representation

· Chapter 12: Complexity and Tractability A reliable and student-friendly online resource offering simple, engaging, interactive introductions to some of the core areas of computer science.

• Lodi, M., and Martini, S. “Computational Thinking, Between Paper and Wing.” Science & Education (Springer Nature) – <https://link.springer.com/article/10.1007/s11191-021-00202-5> A historical and philosophical look at Computational Thinking as an Informatics disciplinary way of thinking, also useful in many other fields.

• Downey, A. B. Think Python: How to Think Like a Computer Scientist. Green Tea Press – <https://alldowney.github.io/ThinkPython/index.html>

· Selected chapters: 1–12 (left column) A clear and progressive introduction to Python and basic programming concepts for complete beginners, including variables, functions, conditionals, iteration, strings, lists, and dictionaries.

## MACHINE LEARNING

BOOK: *Machine Learning For Absolute Beginners*, Author: Oliver Theobald

Link:<https://www.hlevkin.com/hlevkin/45MachineDeepLearning/ML/Machine%20Learning%20For%20Absolute%20Beginners.pdf>

Sections: INTRODUCTION, WHAT IS MACHINE LEARNING?, ML CATEGORIES, THE ML TOOLBOX.

Introduction to Machine Learning with Python, Authors: Andreas C. Müller & Sarah Guido, Link: [https://www.nrigroupindia.com/e-book/Introduction%20to%20Machine%20Learning%20with%20Python%20\(%20PDFDrive.com%20\)-min.pdf](https://www.nrigroupindia.com/e-book/Introduction%20to%20Machine%20Learning%20with%20Python%20(%20PDFDrive.com%20)-min.pdf)

Zhang et al., Dive Into Deep Learning, MIT Press, 2023. <https://d2l.ai/index.html>. 4) Riedl,

Mark. A Very Gentle Introduction to LLMs, 2023. <https://mark-riedl.medium.com/a-very-gentle-introduction-to-large-language-models-without-the-hype-5f67941fa59e>.

Allamar, Jay, The Illustrated Transformer, 2018. <https://jalammar.github.io/illustrated-transformer>.

Awesome AI for LAM: <https://ai4lam.github.io/awesome-ai4lam/>

Open AI. GPT-4, 2023. <https://openai.com/index/gpt-4-research>.

LAW

C. Novelli, F. Casolari, A. Rotolo, M. Taddeo, L. Floridi, AI Risk Assessment: A Scenario-Based, Proportional Methodology for the AI Act, «DIGITAL SOCIETY», 2024, 3(13): 1 - 29