

# Jean-Yves Franceschi

## Curriculum Vitae

✉ [jycja.franceschi@criteo.com](mailto:jycja.franceschi@criteo.com)

🐦 [jy\\_franceschi](https://twitter.com/jy_franceschi)

in [jean-yves-franceschi](https://www.linkedin.com/in/jean-yves-franceschi)

🔗 [IL20zksAAAAJ](https://www.researcherid.org/IL20zksAAAAJ)

🔗 [White-Link](https://www.white-link.com/White-Link)

<https://jyfranceschi.fr>

## Experience

- 2022 – present **Staff Researcher**, *Criteo AI Lab*, Paris, France, Fundamental Deep Learning team
- **Researching** fundamentals of generative AI and its applications to diverse domains (3D, privacy, fairness, video, world models).
  - **Publishing** at top-tier venues (NeurIPS, ICML, ICLR, TMLR, etc.), supervised **three PhD students**.
  - Community service: regular **reviewer and event organizer**.
  - Lead of a cross-department initiative (R&D, Product, Legal & Public Affairs) on the impact of AI regulations at Criteo. Includes feedbacks for policymakers and regulators, e.g. CNIL and the EU Commission.
  - Internal counseling for GPUs, author of a global report that informed the company's strategy.
  - Teaches courses on AI for engineers and non-technical employees.
- 2018 – 2022 **Ph.D. Student**, *Sorbonne Université, LIP6 / ISIR, team MLIA*, Paris, France, supervised by **Sylvain Lamprier** and **Patrick Gallinari**.
- **Representation Learning and Deep Generative Modeling in Dynamical Systems**.
  - Theoretical study of generative models and applications in video & physical systems prediction.
  - Four publications at NeurIPS, ICLR and ICML.
  - **Taught** 192 hours of computer science courses to bachelor students.
- 2015 – 2018 **Multiple research internships**, more details here: <https://jyfranceschi.fr/research/>.

## Selected Publications

- [1] T. Issenhuth, S. Lee, L. Dos Santos, **J.-Y. Franceschi**, C. Kim, and A. Rakotomamonjy. “**Improving Consistency Models with Generator-Augmented Flows**”. In: *Proceedings of the 42nd International Conference on Machine Learning*. Vol. 267. Proceedings of Machine Learning Research. PMLR, July 2025, pp. 26586–26610.
- [2] A. Schnepf, K. Kassab, **J.-Y. Franceschi**, L. Caraffa, F. Vasile, J. Mary, A. I. Comport, and V. Gouet-Brunet. “**Bringing NeRFs to the Latent Space: Inverse Graphics Autoencoder**”. In: *International Conference on Learning Representations*. 2025.
- [3] I. Sebag, M. Sreenivas Pydi, **J.-Y. Franceschi**, A. Rakotomamonjy, M. Gartrell, J. Atif, and A. Allauzen. “**Differentially Private Gradient Flow based on the Sliced Wasserstein Distance**”. In: *Transactions on Machine Learning Research* (2025).
- [4] **J.-Y. Franceschi**, M. Gartrell, L. Dos Santos, T. Issenhuth, E. de Bézenac, M. Chen, and A. Rakotomamonjy. “**Unifying GANs and Score-Based Diffusion as Generative Particle Models**”. In: *Advances in Neural Information Processing Systems*. Vol. 36. Curran Associates, Inc., 2023, pp. 59729–59760.
- [5] **J.-Y. Franceschi**, E. Delasalles, M. Chen, S. Lamprier, and P. Gallinari. “**Stochastic Latent Residual Video Prediction**”. In: *Proceedings of the 37th International Conference on Machine Learning*. Vol. 119. Proceedings of Machine Learning Research. Virtual: PMLR, July 2020, pp. 3233–3246.
- [6] **J.-Y. Franceschi**, A. Dieuleveut, and M. Jaggi. “**Unsupervised Scalable Representation Learning for Multivariate Time Series**”. In: *Advances in Neural Information Processing Systems*. Vol. 32. Curran Associates, Inc., 2019, pp. 4650–4661.

---

## Reviewing

- ICML **12 papers**, 2021, 2022, 2023, 2025, 2026 (*gold reviewer*).
- NeurIPS **14 papers**, 2021 (*outstanding reviewer*), 2022 (*top reviewer*), 2025.
- ICLR **15 papers**, 2022, 2023, 2024, 2025, 2026.
- CVPR **6 papers**, 2024.
- TMLR **5 papers**, 2022 – 2024.
- JMLR **1 paper**, 2024.

---

## PhD Students

- 2026-2029 **Grégoire Moure**, *Affordable Generation: Few-Steps Inference Processes for Deep Generative Models*, with Thibaut Issenhuth (Criteo), and Emmanuel de Bézenac and Claire Monteleoni (Inria).
- 2023-2026 **Karim Kassab**, *Neural Implicit 3D Modeling with Latent Spaces*, with Jeremie Mary (Criteo), and Laurent Caraffa and Valérie Gouet-Brunet (IGN).
- 2023-2026 **Ilana Sebag**, *On the Privacy–Utility Trade-Off in Differentially Private Generative and Optimization Methods*, with Alain Rakotomamonjy (Criteo), and Alexandre Allauzen and Jamal Atif (Université Paris Dauphine-PSL).

---

## Miscellaneous

- 2026 **Agentic AI Symposium**, Criteo, Paris, France.  
General chair of this accessible scientific event gathering 100 attendees including politicians, regulators, jurists, engineers, researchers and product experts.
- 2025 **Trustworthy AI Symposium**, Criteo, Paris, France.  
General chair of this accessible scientific event gathering 100 attendees including politicians, regulators, jurists, engineers, researchers and product experts. Labelled as a Paris AI Action Summit event.
- 2024 **Feedback to the French data protection authority**, Criteo.  
I led Criteo R&D's contribution to a public consultation from CNIL, the French data protection authority, on the potential application of GDPR to AI models.

---

## Education

- 2022 **Ph.D., Computer Science**, Sorbonne Université, Paris, France  
Ph.D. defended on February 14th, 2022; cf. <https://jyfranceschi.fr/phd/>.
- 2018 **Ecole Normale Supérieure de Lyon Diploma**, Ecole Normale Supérieure de Lyon, Lyon, France
- 2017 **Master of Science, Foundations of Computer Science**, Ecole Normale Supérieure de Lyon, Lyon, France, *GPA: 4.00*  
Obtained with highest honors.
- 2015 **Bachelor of Science, Foundations of Computer Science**, Ecole Normale Supérieure de Lyon, Lyon, France, *GPA: 4.00*  
Main and mandatory bachelor (*licence*), obtained with highest honors.
- 2015 **Bachelor of Science, Mathematics and Applications**, Université Claude Bernard Lyon I, Villeurbanne, France, *GPA: 3.50*  
Bachelor (*licence*) followed under the scope of a double degree, obtained with highest honors.
- 2014 **Admission to the Ecole Normale Supérieure de Lyon over a competitive exam**  
The Ecole Normale Supérieure de Lyon is a French “Grande Ecole”, *i.e.* a leading institution of higher education entrance to which is based on a competitive examination. It provides a four-year training designed for future researchers and scientists.
- 2012–2014 **Scientific Classes préparatoires MPSI/MP**, Centre International de Valbonne, Valbonne, France  
“Classes préparatoires” are a two-year intensive course preparing for the competitive entrance examinations to French “Grandes Ecoles” including Mathematics, Physics, Computer Science, English and Philosophy.
- 2012 **Baccalauréat scientifique**, Ajaccio, France  
High-school diploma with a scientific major, obtained with highest honors.