



INTERNSHIP: Image-to-Image Generative Deep Learning

LOCATION

Station F, Paris, France (remote work possible)

ABOUT YOKAI

At [Yokai](#), we're **re-inventing photography** with generative AI and 3D reconstruction.

We believe that most photo production will be programmatically generated in 5 years, disrupting the creative freedom of photographers, brands, advertising agencies and visual storytellers in general. We're building that future.

Focused on **breakthrough research in deep learning**, we strive to push the state-of-the-art forward to shape the future of photorealistic imagery.

Advisory board:

- [David Picard](#)
- [James O'Brien](#)
- [Edmond Boyer](#)
- [Dmitriy Smirnov](#)

Research partners:

- [DEKI](#)
- [INRIA](#)
- [Réseau Curie](#)

Accelerators:

- [Founders Program de Station F](#)
- [Google Cloud Startup Program](#)
- [NVIDIA Inception Program](#)

MISSION

Help Yokai's R&D go beyond the state of the art in certain key areas of **photorealistic image synthesis**.

TASKS

- Help create, train and tune large-scale deep nets to solve problems in challenging computer vision domains ;
- Help carry out an ongoing technology and science watch in the field of generative AI ;
- Analyze, implement, tweak and help improve bleeding edge research for generating and editing photorealistic images and scale it to production ;
- Help specify research projects ;
- Help create and augment datasets in order to improve the performance of deep nets ;
- Help deploy machine learning model into production

SCIENTIFIC PROBLEMS TACKLED

- Re-encoding of non-generated photos into the latent space of a pre-trained cGAN
- Optimization and disentanglement of latent vectors
- Use of attention and fine-tuning
- Supervised detection of latent directions and advanced disentanglement of the obtained directions
- Unsupervised detection of latent directions corresponding to disentangled changes in images
- Fine-tuning of GANs on image datasets

COMPENSATION

1800 € per month

MORE INFO

<https://yokai.ai/>

APPLY

<https://yokai-ai.typeform.com/to/YC4rjxSW>

Join us on board !



Cheers,
The Yokai team

