



**Research fellow position  
in Computer Vision and Machine Learning  
in the IMAGINE group at Ecole des Ponts ParisTech**

École des Ponts ParisTech is an institution of higher education and research in the field of science, engineering and economics. Under the supervision of the Ministry of Ecological and Solidarity Transition (MTES) and with an EPSCP status (Public Scientific, Cultural and Professional Establishment), its missions concern research, training and continuing education, the dissemination of knowledge, and the transfer to economic sectors and support for business creation. Its activities are national and international.

### **1. Generic presentation**

The research at École des Ponts ParisTech is characterized by a balanced effort in the following scientific activities:

- Outstanding academic research, evaluated at the highest level by the HCERES (highest council for research), with 5 ERC, more than 1000 publications of rank A per year, a hundred Ph.D. theses supported per year,
- Partnership research with companies, public entities and local authorities.

École des Ponts ParisTech, in accordance with its strategic plan, develop a long-term research activity in the field of Machine Learning and Computer Vision.

The IMAGINE team is a renowned research group in computer vision and machine learning, with seminal results in 3D reconstruction from images, scene understanding, deep learning, optimization, sparsity, etc. IMAGINE is part of the Laboratoire d'informatique Gaspard-Monge (LIGM), a top-ranked computer science lab.

The Imagine team currently includes 5 permanent researchers and about 30 PhD students. It has strong ties with both academic and industrial partners.

### **2. Responsibilities**

As a research fellow, the appointee will have a leading role in the animation of the IMAGINE team. His/Her research and expertise is expected to complement and extend current research topics and expertise of the team in Computer Vision, Robotics or Machine Learning..

The successful appointee will have to develop, in collaboration with the researchers of Imagine, innovative research programs, with a strong academic component as well as research partnerships with industrial or service companies.

The appointee will be involved in the development and organization of the master track on Statistics and Data Sciences within the Master of Applied Mathematics of École des Ponts in collaboration with one or several of its current partners (École Polytechnique, ENS Saclay, Sorbonne Université, University Paris-Est Marne-la-Vallée...). In the long term, the appointee should:

- Lead and sustain a highly visible research activity meeting the highest international standards,
- Publish research articles in the top computer vision/robotics/machine learning/deep learning venues (e.g. CVPR, ICCV, ECCV, NeurIPS, SIGGRAPH, ICRA, IROS, RAL),
- Build and participate in funded research projects both academic (e.g. ANR) and industrial (e.g. CIFREs PhDs),
- Participate in the education of ENPC students (planning and discussions on the curriculum, lectures, projects, mentoring...).

### **3. Information**

Contract: 3 years renewable contract with competitive salary.

Location: Position based in CHAMPS-sur-MARNE (cité Descartes) - France Access: RER A, 25 minutes from Paris city center.

Application: PhD Diploma/report, curriculum vitae (including publications), research project (maximum 2 pages), up to 3 references or recommendation letters, all grouped in a single pdf.

Date: Application deadline is 15<sup>th</sup> May 2021 with audition mid-June.

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