



**Offre n°2025-08747**

## **PhD Position F/M tVIST: Data Visualization Beyond Planar Displays**

*Le descriptif de l'offre ci-dessous est en Anglais*

**Type de contrat :** CDD

**Niveau de diplôme exigé :** Bac + 5 ou équivalent

**Fonction :** Doctorant

### **A propos du centre ou de la direction fonctionnelle**

The Inria Saclay-Île-de-France Research Centre was established in 2008. It has developed as part of the Saclay site in partnership with **Paris-Saclay University** and with the **Institut Polytechnique de Paris** .

The centre has 40 [project teams](#) , 27 of which operate jointly with Paris-Saclay University and the Institut Polytechnique de Paris; Its activities occupy over 600 people, scientists and research and innovation support staff, including 44 different nationalities.

### **Contexte et atouts du poste**

#### **Location & Duration**

- The PhD student will enroll at the [Universite-Paris Saclay](#) (12th worldwide in the Shanghai ranking in 2024 and the top ranking French university) in the [computer science graduate school](#) . The student will be hosted in the Aviz or Ilda team at Inria, which is the French national research institute dedicated to digital science and technology.
- Location: Bât 660, Digiteo Moulon, Université Paris-Saclay, 91190, Gif-Sur-Yvette

- The PhD funding is available for a duration of three years.

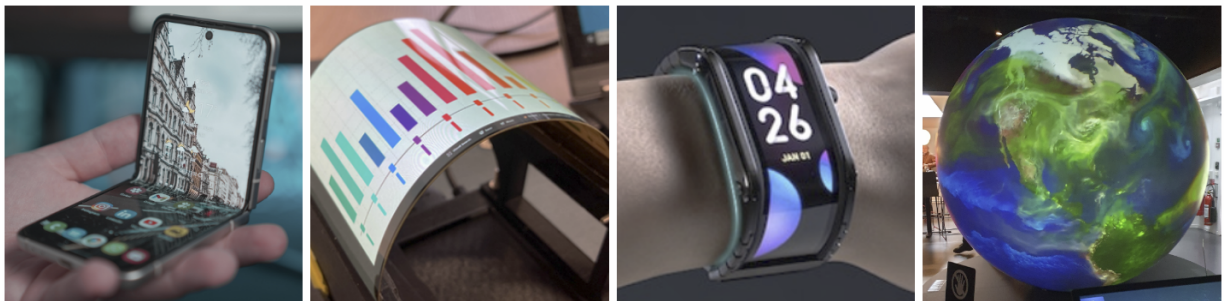
## Benefits package

- Subsidized meals
- Partial reimbursement of public transport costs
- Vacation: around 40 days a year + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

## Remuneration

- Gross salary : ~2.200 euros/month

## Mission confiée



The world is flat and rectangular when it comes to the types of physical screens that we use for representing data and making decisions. Display technology, however, is already evolving quickly: curved, bendable, and highly flexible displays, spherical displays, cubed displays, and even drone-based displays have emerged and are commercially available. These novel types of displays offer new ways to represent and explore data embedded in everyday environments, to communicate it, and share it. For a possible future in which non-planar displays will be ubiquitous, however, there are open questions about what visualizations should look like on these displays, how we would interact with them, and how people would engage with them. Non-planar displays, therefore, not only pose perceptual challenges for data visualization, but it is also yet largely unexplored which visualization types work on them and how to create effective and appealing interactive data visualization

experiences. As such, the potential and the challenges of these displays for visual data representation remain unexplored. There are two PhD projects part of a larger international funded project that aims to escape from the “display flatland” that characterizes today’s research in visualization. It will establish foundations for how to engage with a future in which physical displays take on several different form factors and become truly embedded in our environments.

As part of this research there are two PhD topics to choose from (we will consider dual-career couples).

See the full proposal for more information: <https://tinyurl.com/2p8yjjz5>

## Principales activités

Both PhD topics will lead to high-quality scientific publications in the domain of visualization and/or human-computer interaction (IEEE VIS, IEEE TVCG, ACM CHI, etc) and presented in relevant conferences. In addition, the students will be involved in dissemination activities around the constructed prototypes in public forums such as open research days, workshops, etc.

For detailed activities as part of each PhD proposal, please go to the following website: <https://tinyurl.com/2p8yjjz5>

## Compétences

### Requirements

- We are looking for someone interested in this topic, motivated, and with a background in visualization, human-computer interaction, or display hardware prototyping.

Any of the following experiences are a plus:

- Data analysis experience (Python, R)
- Experience working with display hardware
- Experience with empirical user studies
- Experience programming data visualizations
- Experience in design

## Avantages

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

## Rémunération

Monthly gross salary : 2.200 euros/month

## Informations générales

- **Thème/Domaine** : Interaction et visualisation  
Systèmes d'information (BAP E)
- **Ville** : Gif Sur Yvette
- **Centre Inria** : [Centre Inria de Saclay](#)
- **Date de prise de fonction souhaitée** : 2025-10-01
- **Durée de contrat** : 3 ans
- **Date limite pour postuler** : 2025-06-30

## Contacts

- **Équipe Inria** : [AVIZ](#)
- **Directeur de thèse** :  
Isenberg Petra / [Petra.Isenberg@inria.fr](mailto:Petra.Isenberg@inria.fr)

## A propos d'Inria

Inria est l'institut national de recherche dédié aux sciences et technologies du numérique. Il emploie 2600 personnes. Ses 215 équipes-projets agiles, en général communes avec des partenaires académiques, impliquent plus de 3900 scientifiques pour relever les défis du numérique, souvent à l'interface d'autres disciplines. L'institut fait appel à de nombreux talents dans plus d'une quarantaine de métiers différents. 900 personnels d'appui à la recherche et à l'innovation contribuent à faire émerger et grandir des projets scientifiques ou entrepreneuriaux qui impactent le monde. Inria travaille avec de nombreuses entreprises et a accompagné la création

de plus de 200 start-up. L'institut s'efforce ainsi de répondre aux enjeux de la transformation numérique de la science, de la société et de l'économie.

## L'essentiel pour réussir

The student should have a keen interest in research, reading the scientific literature, engaging in research discussions, but also writing and communicating their findings.

Both PhD topics will lead to high-quality scientific publications in the domain of visualization and/or human-computer interaction (IEEE VIS, IEEE TVCG, ACM CHI, etc) and presented in relevant conferences. In addition, the students will be involved in dissemination activities around the constructed prototypes in public forums such as open research days, workshops, etc.

**Attention:** Les candidatures doivent être déposées en ligne sur le site Inria. Le traitement des candidatures adressées par d'autres canaux n'est pas garanti.

## Consignes pour postuler

### **Sécurité défense :**

Ce poste est susceptible d'être affecté dans une zone à régime restrictif (ZRR), telle que définie dans le décret n°2011-1425 relatif à la protection du potentiel scientifique et technique de la nation (PPST). L'autorisation d'accès à une zone est délivrée par le chef d'établissement, après avis ministériel favorable, tel que défini dans l'arrêté du 03 juillet 2012, relatif à la PPST. Un avis ministériel défavorable pour un poste affecté dans une ZRR aurait pour conséquence l'annulation du recrutement.

### **Politique de recrutement :**

Dans le cadre de sa politique diversité, tous les postes Inria sont accessibles aux personnes en situation de handicap.