



Offre n°2024-07974

PhD Position F/M Multidisciplinary PhD: better understand and improve collaboration among peers

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

Type de contrat : CDD

Niveau de diplôme exigé : Bac + 5 ou équivalent

Fonction : Doctorant

Niveau d'expérience souhaité : De 3 à 5 ans

Contexte et atouts du poste

Context: Collaboration among peers is a core part of education, in France as in other countries. However surprisingly little is known about how to optimize collaboration, how to choose which students should work together, how their work conversations should be managed, and how to design educational materials and educational technologies in order to increase learning gains for all members of a collaboration group.

In this PhD the student will work with the research team to bring together a range of disciplinary approaches, including linguistics, psychology, education, AI, and neuroscience, in order to better understand peer collaboration, and to use the results to build models of optimal peer collaboration that can then be implemented in conversational agent systems.

For more information about the background of the work, candidates may see the PhD supervisor's papers, found here <www.justinecassell.com>, the research group's website, found here: <<https://articulab.hcii.cs.cmu.edu/>>, and a recent publication from the team working on this project, found here: <<https://www.frontiersin.org/journals/neuroergonomics/articles/10.3389/fnrgo.2024.1290256/full>>.

Mission confiée

Assignments :

The student chosen for this PhD is expected to take the initiative to become fully informed and conversant in all of the literature implicated in this research, and to share that knowledge with the supervisor and other team members.

On the basis of that literature, the student chosen for this PhD will -work with the team to:

- design and implement an experiment that brings together peers to work on education-oriented tasks.
- manage and analyze multimodal data collected during the experiment, including conversational data, educational performance, metrics of interpersonal bonds, and fNIRS data on interbrain synchrony among the collaborating students.
- build both social science and computational models of the results.
- write up and publish the results, in such a way as to lead to a PhD thesis.

Principales activités

Main activities :

- Discover, read, and summarize the necessary background literature
- Help to design experiments to answer the core questions of the research
- Manage and analyze data collected during the experiments
- Build models of the results that can be used to implement peer conversational agents
- Write papers, present, and publish research

Additional activities :

- - Build and maintain solid relationships with educational organizations, improving the experimental design with their feedback, providing feedback to them, and managing data collection in a way that benefits them as well as the research group.
- Collaborate with other project members to regularly produce documentation, slides and other materials about the research that can be used with a variety of audiences.
- Manage interns working on the project.

In order to apply for this PhD student position, please upload into JobIn the following:

1. An up-to-date CV.
2. A letter of motivation describing your relevant experience and interests
3. The names and contact information of 3 people who can write recommendations for you (please note that letters of recommendation will **not** be accepted - only names and contact information for recommenders that we will contact).

Compétences

The successful candidate should have:

- a strong grasp of French or English, and be willing to learn the second language.
- a background in psychology, education, and / or cognitive science

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
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

Informations générales

- **Thème/Domaine** : Neurosciences et médecine numériques
Production, traitement et analyse des données (BAP D)
- **Ville** : Paris
- **Centre Inria** : [Centre Inria de Paris](#)
- **Date de prise de fonction souhaitée** : 2024-10-01
- **Durée de contrat** : 3 ans
- **Date limite pour postuler** : 2024-09-30

Contacts

- **Équipe Inria** : [ALMANACH](#)
- **Directeur de thèse** :
Cassell Justine / justine.cassell@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 successful candidate will:

- be able to work successfully with interdisciplinary and international research teams.
- be able and ready to manage younger scholars and team members, such as masters and L2 students.

- be capable of working both independently and in tight collaboration with others.
- Posses a positive outlook and resilience in the face of inevitable experimental obstacles.
- wish to learn and listen.

Experience in collecting and analyzing data using a variety of analytic methods is a real asset.

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.